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## Catalog of Recent Type Specimens in the Department of Invertebrates, American Museum of Natural History. IV. Crustacea: Isopoda

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### ABSTRACT

A complete, annotated listing of all recent type specimens of isopods in the collection of the Department of Invertebrates at the American Museum of Natural History is given as of September

1997. A total of 514 isopod type lots is listed. A lectotype is designated for *Philoscia williamsi* Van Name, 1924. An index of genera and species is included.

### INTRODUCTION

The Department of Invertebrates at the American Museum of Natural History (AMNH) currently houses a collection of over 360,000 cataloged lots divided among three major categories: fossil (45,000 lots), Recent mollusks (285,000 lots), and other Recent phyla (30,000 lots). In the non-mollusk Recent phyla, the crustaceans are the most numerous, with over 16,000 cataloged lots. The type specimens for all phyla, both Recent and fossil, are housed separately from

the main body of the collection. This allows for a greater level of security than can be maintained in a large, general collection area as per ICZN Recommendation 72 (ICZN, 1985: 147).

This catalog is the fourth in a series of comprehensive listings of type material in the department's collection. Included here are all AMNH holotype, allotype, lectotype, paratype, paralectotype, and syntype specimens from the crustacean order Isopoda, rep-

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representing 223 species. A total of 213 holotype, 36 allotype, 1 lectotype, 1 paralectotype, 257 paratype, and 6 syntype lots is listed in this publication.

This catalog includes an accounting of the type specimens that have been transferred to this institution from other sources. Very often no published record of these transfers was ever made, especially for specimens coming from private collections. In several cases, types were published as having been given to the American Museum, but subsequent investigation determined that the specimens were never deposited. Other members of type series with representatives in the AMNH have also been subject to transfer between institutions over time (e.g., paratypes given to Alceu Lemos de Castro in 1957 for deposition in MNRJ). The most recent known repositories are listed here, as well as the most recent catalog numbers used to identify type lots in other institutions.

The majority of the specimens included in this catalog come from three sources: first, the R/V "Vema" Expedition material from Lamont Geological Observatory, primarily identified by Robert J. Menzies (1923–1976). Some of the "Vema" specimens were directly deposited in the AMNH, but the vast majority was transferred from Lamont Geological Observatory in the late 1960s. This mass transfer of specimens led to some confusion in the AMNH cataloging process, resulting in certain specimen file cards erroneously indicating that types were lost during transfer. Fortunately, most of the "missing" specimens were located during the comprehensive survey for this publication.

The AMNH is the original repository for almost all the type specimens, as well as non-types, described by Willard G. Van Name (1872–1959). However, a few specimens were received at the AMNH after publication (e.g., NYZS specimens) and others have since been sent to various institutions (e.g., MCZ, MNRJ, USNM); many of these transfers are recorded here for the first time. Van Name frequently did not cite the sexes of his type specimens and, where possible, that information is provided herein. Van Name usually designated a single "type" specimen (= holotype) in his descriptions, but he (1924) neglected to do so for *Philoscia williamsi*.

Because he labeled an ovigerous female as the type specimen within the type lot, that specimen is herein designated as lectotype. Although Van Name was not a prolific worker (his papers cited in this publication constitute a complete bibliography of his work on isopods), he is still regarded as a pioneer in American isopod taxonomy, especially for the Oniscidea.

The third major source of isopod types arrived at the American Museum somewhat inadvertently. When John Cook and Mohammad Shadab from the AMNH Department of Entomology removed the spider collection of Stanley Mulaik (1902–1995) from the University of Utah in 1972, they also took a number of vials of crustaceans. Eventually, these non-arachnids (including anostracans, amphipods, and isopods) were sorted out at AMNH and transferred to the Department of Invertebrates in 1979. In the course of my examining the AMNH collection of uncataloged isopods, it was discovered that, whereas most of Mulaik's specimens were a mixed group of unidentified and voucher specimens, some vials contained types of species described in his 1942, 1943 (both written with his wife, Dorothea), and 1960 papers on isopods. The types from the Mulaiks' 1942 and 1943 papers were cited as "deposited in the Zoological Collections of the University of Utah" and of the dozen species described therein, the AMNH now houses at least some part of the type series for six species. The species that were described by Mulaik and Mulaik but are not represented by types in the AMNH Collection are *Ligidium mucronatum* Mulaik and Mulaik, 1942, *Ligidium lapetum* Mulaik and Mulaik, 1942, *Trichoniscus humus* Mulaik and Mulaik, 1942 (= *Miktoniscus medcofi* Van Name, 1940, fide Schultz, 1976a: 36), *Porcellio conchus* Mulaik and Mulaik, 1943, *Porcellio grandeus* Mulaik and Mulaik, 1943, and *Porcellio alpinus* Mulaik and Mulaik, 1943. These type specimens are not in the University of Utah Biology Department (Edmunds, personal commun.), nor are they in the Utah Museum of Natural History (Rickart, personal commun.). In light of the evidence, they are presumed lost. Mulaik also described several new oniscid species in his 1960 paper, but the types of these were almost all sent to the

Escuela Nacional de Ciencias Biológicas del Instituto Politécnico Nacional de México (Mulaik, 1960; Edmunds, personal commun.) (but see *Trichorhina zimapanensis*, which appears to have been an exception).

Each AMNH isopod type lot was compared to the original description and figures to verify type status, confirm locality and collection data, and remove any specimens from the type collection that are not valid types. The publication of this catalog fulfills ICZN Recommendation 72G(4), which states that all museums holding type specimens have the responsibility of making a published catalog of these types available to the scientific community (ICZN, 1985: 147).

The types in this catalog are listed in alphabetical order by genus and species, in the original combination. Table 1 shows the placement of the genera in their respective suborders. An index is provided, which gives a genus- and species-level list. This catalog follows Boyko and Sage (1996) and Boyko (1996) by including detailed information on current synonymy and generic placement of all species listed.

Each type listing contains four to six categories of data. Within each genus, specific names are followed by authorship data (author, year description was published, and page and figure numbers). The next category indicates the specific kind of type(s) in the collection, as well as AMNH catalog number(s), and the number of specimens in each lot. The sex of the specimens in each lot is given where that could easily be determined. The locality category contains all pertinent collection data, including county names for U.S. locations where that could be determined. The collector category indicates the collector(s) of the specimen(s) and the date(s) they were collected, if those are known. The remarks category contains information about the provenance of specimens, location of other members of the type series, current synonymy and/or generic placement, suborder affiliation, etc. The host category is included for species that are parasites or commensals of other species (e.g., Cymothoidae).

#### *Institutional Abbreviations*

AHF Allan Hancock Foundation, University of Southern California, Los Angeles

TABLE 1  
Genera of Isopoda with Type Specimens  
in AMNH, Listed by Suborder

Gnathiidea	Asellota
Gnathia	Abyssianira
Flabellifera	Abyssijaera
Cirolana	Acanthaspidia
Eurdice	Acanthocope
Exosphaeroma	Acanthomunna
Glabroserolis	Antennuloniscus
Gnorimosphaeroma	Asellus
Ichthyoxenos	Aspidoniscus
Livoneca	Caecidotea
Paracerceis	Caecijaera
Serolis	Dendromunna
Oniscidea	Desmosoma
Armadilloniscus	Echinothambema
Benthana	Eurycope
Benthanoscia	Haplomesus
Brackenridgia	Haploniscus
Calycuoniscus	Heteromesus
Circoniscus	Hydroniscus
Cubaris	Ianirella
Delatorreia	Ilyarachna
Eubelum	Ischnomesus
Leptotrichus	Jaeropsis
Ligyda	Macrostylis
Petoniscus	Mesosignum
Philoscia	Munna
Porcellio	Nannoniscoides
Porcellionides	Notoxenoides
Protrichoniscus	Spinianirella
Pseudarmadillo	Stenetrium
Rhyscotus	Storthyngura
Scleropactes	Stylomesus
Sphaeroniscus	Syneurycope
Synarmadillo	Tenupedunculus
Trichoniscus	Vemathambema
Trichorhina	Xostylus
Tylos	
Valvifera	Epicaridea
Colidotea	Allobimorphus
Erichsonella	Pleurocrypta
Parasymmerus	Pseudione

AM	Australian Museum, Sydney
AMNH	American Museum of Natural History
ANSP	Academy of Natural Sciences of Philadelphia, Pennsylvania
CASIZ	California Academy of Sciences, Invertebrate Zoology, San Francisco
CMN	Canadian Museum of Nature, Ottawa
FPMNH	Felipe Poey Museum of Natural History, University of Havana, Cuba

FSCA	Florida State Collection of Arthropods, Gainesville
IBM	Instituto de Biología, Universidad Nacional Autónoma de México
LACM	Los Angeles County Museum (= Natural History Museum of Los Angeles Co.), California
LGO	Lamont Geological Observatory, Columbia University, New York
MCZ	Museum of Comparative Zoology, Harvard University, Cambridge, Massachusetts
MNRJ	Museu Nacional, Rio de Janeiro, Brazil
NMC	National Museum of Canada (= CMN)
NYZS	New York Zoological Society, New York
SDNHM	San Diego Natural History Museum, California
UC Davis	Museum of the Department of Zoology, University of California, Davis
UMNH	Utah Museum of Natural History, Salt Lake City
UMMZ	University of Michigan Museum of Zoology, Ann Arbor
USNM	United States National Museum (now National Museum of Natural History, NMNH), Washington, D.C.
WHOI	Woods Hole Oceanographic Institution, Massachusetts
YPM	Peabody Museum, Yale University, New Haven, Connecticut
ZMUC	Zoological Museum, University of Copenhagen, Denmark

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## ORDER ISOPODA

*Abyssianira argenteensis* Menzies, 1962: 179, fig. 61i-l.

Holotype: AMNH 12134 (♀).

Locality: V-15-123, 50°23.2'N, 47°25'W, 2685 m, central part of Falkland Ridge, northeast of Falkland Islands, Atlantic Ocean.

Collector: R/V "Vema," March 25, 1959.

Remarks: ex LGO. AMNH 12134 is the holotype by monotypy.

*Abyssianira dentifrons* Menzies, 1956: 15, fig. 6.

Holotype: AMNH 11762 (♂).

Locality: V-7-1, 20°3.2'N, 68°21.1'W, 4983-5001 m, north rim, Puerto Rico Trench, Atlantic Ocean.

Collector: R/V "Vema," Nov. 12, 1955.

Remarks: AMNH 11762 is the holotype by monotypy. This species is the type of the genus *Abyssianira* Menzies, 1956, by monotypy and the genus is the type of the family Abyssianiridae Menzies, 1956 by monotypy (Menzies, 1956: 13-14).

*Abyssijaera acarina* Menzies, 1962: 181-183, fig. 62c-i.

Holotype: AMNH 12114 (♂).

Locality: Theta-1-4, 29°17.6'N, 57°20.3'W, 5781 m, Abyssal Hills between Nares and Sohm Abyssal Plains, Atlantic Ocean.

Collector: R/V "Theta," Sept. 23, 1956.

Remarks: ex LGO. AMNH 12114 is the holotype by monotypy. This species is the type of the genus *Abyssijaera* Menzies, 1962, by monotypy (Menzies, 1962: 181). It is now placed in the genus *Katianira* Hansen, 1916 (Svavarsson, 1987: 718).

*Acanthaspidia bifurcata* Menzies, 1962: 177-178, fig. 60.

Holotype: AMNH 12138 (♀).

Paratype: AMNH 12139 (1♀ fragment).

Locality: V-12-4, 25°33'S, 12°27'E, 2972 m, Upper Continental Rise, off Walvis Bay, Namibia, Atlantic Ocean.

Collector: R/V "Vema," May 3, 1957.

Remarks: ex LGO.

*Acanthocope annulatus* Menzies, 1962: 155, fig. 44b, c.

Holotype: AMNH 12079 (♀).

Locality: V-14-31, 36°34'S, 14°08'E, 4893 m, Lower Continental Rise, southwest of Cape Town, South Africa, Atlantic Ocean.

Collector: R/V "Vema," April 4, 1958.

Remarks: ex LGO. AMNH 12079 is the holotype by monotypy.

*Acanthocope argentinae* Menzies, 1962: 154–155, fig. 43.

Holotype: AMNH 12085 (♀).

Locality: V-12-1A, 38°58.5'S, 41°45'W, 5041 m, northern part of Argentine Rise, southeast of Río Grande, Argentina, Atlantic Ocean.

Collector: R/V "Vema," April 6, 1957.

Remarks: ex LGO. AMNH 12085 is the holotype by monotypy.

*Acanthocope unicornis* Menzies, 1962: 155, fig. 44a.

Holotype: AMNH 12088 (♀).

Locality: V-12-6, 23°00'S, 08°11'E, 4050 m, crest of Walvis Ridge Front Range, west of Walvis Bay, Namibia, Atlantic Ocean.

Collector: R/V "Vema," May 7, 1957.

Remarks: ex LGO. AMNH 12088 is the holotype by monotypy.

*Acanthomunna beddardi* Menzies, 1962: 176, fig. 57.

Holotype: AMNH 12116 (♂).

Locality: V-14-31, 36°34'S, 14°08'E, 4893 m, Lower Continental Rise, southwest of Cape Town, South Africa, Atlantic Ocean.

Collector: R/V "Vema," April 4, 1958.

Remarks: ex LGO. AMNH 12116 is the holotype by monotypy.

*Allobimorphus scabriculi* Bourdon, 1976: 208–210, figs. 26, 27.

Holotype: AMNH 16285 (♀).

Host: *Petrolisthes scabriculus* (Dana, 1853) (Malacostraca).

Locality: St. Cruz Pavad, Mindinao, Philippines, Pacific Ocean.

Collector: G. R. Oesch, 1938.

Remarks: AMNH 16285 is the holotype by monotypy.

*Antennuloniscus armatus* Menzies, 1962: 108–109, fig. 14c–f.

Holotype: AMNH 11997 (♀).

Paratypes: AMNH 12163 (1♂, 2♀).

Locality: V-14-28, 45°34'S, 06°02'E, 4618 m, western flank of Walvis Ridge, northwest of Meteor Seamount (AMNH 11997), V-14-29, 41°03'S, 07°49'E, 4961 m, southwestern flank of Schmidt-Ott Rise, southwest of Cape Town, South Africa (AMNH 12163), Atlantic Ocean.

Collector: R/V "Vema," March 28 (AMNH 11997), 30 (AMNH 12163), 1958.

Remarks: ex LGO.

*Antennuloniscus ornatus* Menzies, 1962: 109, fig. 14k–m.

Holotype: AMNH 12004 (♂).

Paratypes: AMNH 12005 (1♂), 12296 (1♂).

Locality: V-14-23, 55°29'S, 37°57'W, 3770 m, Archipelagic Apron of Menzies Seamount, southwest of South Georgia, eastern Scotia Sea (AMNH 12004, 12005), V-15-117, 55°31.6'S, 64°07.5'W, 3845 m, continental rise, south of Staten Island, northwest Scotia Sea (AMNH 12296), Atlantic Ocean.

Collector: R/V "Vema," March 6, 1958 (AMNH 12004, 12005), March 15, 1959 (AMNH 12296).

Remarks: ex LGO.

*Antennuloniscus quadratus* Menzies and Schultz, 1968: 147–150, fig. 6.

Holotype: AMNH 12581 (♀).

Locality: V-14-36, 28°28'S, 44°22'E, 2270 m, 250 mi south of Madagascar, Indian Ocean.

Collector: R/V "Vema," April 29, 1958.

Remarks: AMNH 12581 is the holotype by monotypy.

*Antennuloniscus rostratus* Menzies, 1962: 109, fig. 14g–j.

Holotype: AMNH 12002 (♀).

Paratypes: AMNH 12003 (3♀).

Locality: V-14-29, 41°03'S, 07°49'E, 4961 m, southwestern flank of Schmidt-Ott Rise, southwest of Cape Town, South Africa, Atlantic Ocean.

Collector: R/V "Vema," March 30, 1958.

Remarks: ex LGO. This species is now placed in the genus *Haploniscus* Richardson, 1908 (Lincoln, 1985: 51).

*Armadilloniscus coronacapitalis* Menzies, 1950: 468–469, figs. 1–16.

Paratypes: AMNH 10170 (2♂, 2♀).

Locality: under rocks at high tide line on coarsely grained sand, cove opposite Hog Island, east side of Tomales Point, Tomales Bay, Marin Co., California, United States.

Collector: R. J. Menzies, Aug. 3, 1946.

Remarks: The holotype ♀ and allotype ♀ were CAS Paleontology type 9502 and 9502A, now CASIZ 018800 and 018801, respectively. Additional paratypes were in AHF (2♂, 2♀), now

LACM 46–49.1 (Wetzer et al., 1991: 37), and are CASIZ 018802 (3♂, 1♀), 017124 (ex Pacific Marine Station, Dillon Beach, CA) (29♂, 11♀), and USNM 84811 (cited as 6♂, 6♀; now containing only 10 specimens) (Menzies, 1950: 469).

*Asellus incisus* Van Name, 1936: 464–465, fig. 292.

Holotype: AMNH 6526 (♂).

Paratypes: AMNH 6532 (14 specimens).

Locality: Spring, Marvel's Cave, Stone Co., Missouri, United States.

Collector: G. K. Noble, Sept. 14, 1927.

Remarks: Van Name (1936: 465) erroneously cited AMNH 6527 as the holotype; it is the holotype of *Sphaeroniscus guianensis* Van Name, 1936. Van Name (1936) cited 18 specimens, but only 15 are extant. This species is a synonym of *Lirceus hoppinae hoppinae* (Faxon, 1889) (Hubricht and Mackin, 1949: 343).

*Aspidoniscus perplexus* Menzies and Schultz, 1968: 153–155, figs. 7, 8.

Holotype: AMNH 12580 (♀).

Locality: V-15-8, 15°51'N, 75°11'W, 3069 m, north margin of Colombian Basin, Caribbean Sea.

Collector: R/V "Vema," Nov. 6, 1958.

Remarks: AMNH 12580 is the holotype by monotypy. This species is the type of the genus *Aspidoniscus* Menzies and Schultz, 1968 by monotypy (Menzies and Schultz, 1968: 150).

*Benthana albomarginata* Lemos de Castro, 1958c: 95–98, figs. 16–27.

Syntypes: AMNH 14246 (1♂, 2♀).

Locality: In bromeliads, Santa Teresa, Espirito Santo, Brazil.

Collector: N. D. dos Santos, J. M. Filho, A. R. do Rego Barros, J. Cruz and A. Lemos de Castro.

Remarks: ex de Castro. Additional syntypes are MNRJ 6139 (1♂), 6140 (1♀), 6141 (3♂, 8♀) (Lemos de Castro, 1958c: 98; P. Young, personal commun.).

*Benthanoscia longicaudata* Lemos de Castro, 1958a: 2–6, figs. 1–14.

Holotype: AMNH 11774 (♂).

Locality: Alto da Mosela, Petropolis, Estado do Rio, Brazil.

Collector: D. Albuquerque, 1955.

Remarks: The allotype ♀ and the 3 paratypes are MNRJ 6155 and 6156, respectively (Lemos de Castro, 1958a: 6; P. Young, personal commun.). This species is the type of the genus *Benthanoscia* Lemos de Castro, 1958 by monotypy (Lemos de Castro, 1958a: 2).

*Brackenridgia sphinxensis* Schultz, 1984: 311–312, fig. 1.

Holotype: AMNH 16431 (♂).

Locality: Sphinx Cave, Wood Canyon, 16.1 km southeast of San Simon, on or very near the northeastern corner of the Chiricahua National Monument, Cochise Co., Arizona, United States.

Collector: V. and B. Roth, Jan. 29, 1978.

Remarks: The holotype number was incorrectly reported as AMNH 16255 (Schultz, 1984: 311). AMNH 16431 is the holotype by monotypy.

*Caecidotea macropropoda* Chase and Blair, 1937: 221, pl. 1.

Syntypes: AMNH 9890 (60 specimens).

Locality: Cave, 5 mi south of Kansas, Oklahoma.

Collector: H. D. Chase and A. P. Blair, Dec. 27, 1935 or July 10, 1936 (see below).

Remarks: Probably ex Chase via Van Name. The collection dates on the specimen label (1936) and in the original publication (1935) do not agree. The generic placement of this species is questionable. In the past, it has been variously placed in *Conasellus* Stammer, 1932 (as *C. macropropodus*) (Henry and Magniez, 1970: 356), *Asellus* Geoffroy–St. Hilare, 1764 (as *A. macropropodus*) (Fleming, 1973: 294), and in the original genus of *Caecidotea* Packard, 1871 (Lewis, 1982: 342). The uncertain generic placement is caused by difficulties in establishing the boundaries and validity of these genera, rather than some attribute of the species.

*Caecidotea pricei* Levi, 1949: 2, figs. 1–3, 7–10.

Paratype: AMNH 17513 (1 specimen).

Locality: Refton Cave, Lancaster Co., Pennsylvania, United States.

Collector: J. L. Blum and J. Price, 1948.

Remarks: The holotype ♂ and allotype ♀ are ANSP CA5409 and CA5410, respectively (Levi, 1949: 2). ANSP CA5418 (2♂) is marked as being paratypic (Spamer and Bogan, 1992: 129), but Levi (1949: 2) did not cite paratypes as having been deposited in ANSP. An additional ♂ paratype is USNM 89804. The generic placement of this species is questionable. In the past, it has been variously placed in *Conasellus* Stammer, 1932 (Henry and Magniez, 1970: 356) and *Asellus* Geoffroy–St. Hilare, 1764 (Fleming, 1973: 294), as well as *Caecidotea*. The uncertain generic placement caused by difficulties in establishing the boundaries and validity of these genera, rather than some attribute of the species.

*Caecijaera horvathi* Menzies, 1951b: 3–4, figs. 1–3.

Paratypes: AMNH 11351 (5♂, 5♀).

Locality: From wood infested with *Limnoria* sp. [= *L. tripunctata* Menzies, 1951 (see Menzies, 1951a: 86)], southwest corner of Terminal Island, Los Angeles-Long Beach Harbor, California, Pacific Ocean.

Collector: C. Horvath, Dec. 6, 1950.

Remarks: The holotype ♂ (AHF type #505), allotype (AHF type #505a) and paratypes (7♂, 10♀) were in AHF, now LACM 50-72.1, 50-72.2, and 50-72.3, respectively (Wetzer et al., 1991: 11). This species is the type of the genus *Caecijaera* Menzies, 1951, by monotypy (Menzies, 1951b: 2).

*Calycuoniscus barbouri* Van Name, 1926: 5-6, figs. 4, 5.

Holotype: AMNH 5338 (♀).

Locality: Taken by sifting leaves in old-growth forest near biological station, Barro Colorado Island, Canal Zone, Panama.

Collector: W. G. Van Name, April 4, 1924.

Remarks: AMNH 5338 is the holotype by monotypy. This species is tentatively placed in the genus *Novamundoniscus* Schultz, 1995 (Schultz, 1995: 406).

*Circoniscus hamatus* Van Name, 1936: 309-310, fig. 182.

Holotype: AMNH 6521 (♂).

Paratypes: AMNH 6521A (1♀), 6534 (5♂, 1♀), 6534a (slide).

Locality: Kamakusa, British Guiana.

Collector: H. Lang, Oct. 25, 1911.

Remarks: AMNH 6521 and 6521A are in the same vial. AMNH 6534A is a mount of pleopods of a ♂ specimen from AMNH 6534. This species has been synonymized with *C. gaigei* Pearse, 1917 (Lemos de Castro, 1967: 324; Schultz, 1995: 417), but could be a valid species (Souza and Lemos de Castro, 1991: 50).

*Cirolana (Speocirolana) bolivari* Rioja, 1953: 149-159, figs. 1-3, 5-8, 10-32, 34.

Paratypes: AMNH 17514 (1♂, 1♀).

Locality: Quintero Cave, 560 km altitude, Valles al Mante highway, Tamaulipas, Mexico.

Collector: A. Villalobos, July 4, 195[?].

Remarks: ex Rioja. Although not labeled as paratypes, these specimens were donated to AMNH in Dec. 1953 (Acc. 7469) by Enrique Rioja along with a specimen of *Typhlopseudothelphusa mocinoi* Rioja, 1952 (Brachyura: Pseudothelphusidae). The crab's data are consistent with that of the species' type series, suggesting that the crab is a paratype specimen. The *C. bolivari* specimens' data label was damaged during shipment and the year collected cannot be read with certainty. Nevertheless, the external evidence regarding the circumstance of

their deposition at AMNH is sufficient to regard these specimens as paratypes. The holotype is in IBM (Rioja, 1953: 159). The former subgenus *Speocirolana* Bolívar y Pieltain, 1950, is now accorded generic status (Kensley and Schotte, 1989: 273).

*Cirolana browni* Van Name, 1936: 423-426, figs. 262-264.

Holotype: AMNH 6519 (♂).

Paratypes: AMNH 6519A (1♀), 6536 (5♂, 1♀).

Locality: Danny's River, 3 mi below Rodas, Santa Clara Province, Cuba.

Collector: B. Brown, June 1918.

Remarks: AMNH 6519 and 6519A are in the same vial. AMNH 6536 appears to have been lost after return from loan to SDNHM (Brusca, in litt.). This species is now placed in the genus *Anopsilana* Paulian and Delamare Deboutteville, 1956 (Kensley and Schotte, 1989: 125).

*Colidotea findleyi* Brusca and Wallerstein, 1977: 6-7, figs. 2, 3.

Paratypes: AMNH 16402 (1♂, 7♀).

Locality: Rocky intertidal, 20 mi E Punta Eugenio, 27°28'47"N, 114°43'07"W, west coast of central Baja California, Mexico, Pacific Ocean.

Collector: R/V "Velero IV," Nov. 2, 1951.

Remarks: The holotype ♂ was AHF type #6910 and the allotype ♀ was AHF type #6910a (Brusca and Wallerstein, 1977: 6), now LACM 69-117.1 and 69-117.2, respectively (Wetzer et al., 1991: 38). Additional paratypes are USNM 170583 (1♂, 2♀) (Brusca and Wallerstein, 1977: 6), and LACM 40-17.2 (1♀), 46-46.1 (1♀), 49-155.2 (7♂, 10♀), 67-198.14 (2♀), 72-299.1 (1♂), 75-141.1 (2 specimens), 76-89.2 (12♂, 9♀) (Wetzer et al., 1991: 38-39). One paratype lot (1♂, 2♀) was not cited by Wetzer et al. (1991: 38-39) as being in LACM, while their citation of LACM 72-298.2 (1 specimen collected Mar. 24, 1972) does not correspond to any of the paratype lots listed in the original description.

*Cubaris aguayoi* Boone, 1934: 593-595, fig. 12.

Holotype: AMNH 6606 (♀).

Locality: Camoa, Cuba.

Collector: C. G. Aguayo, Jan. 1930.

Remarks: The paratype is in FPMNH (Boone, 1934: 595). This species is now placed in the genus *Venezillo* Verhoeff, 1928 (Vandel, 1981: 72).

*Cubaris apacheus* Mulaik and Mulaik, 1942: 8-9, figs. 1-14.

Holotype: AMNH 17515 (♂).

Allotype: AMNH 17516 (♀).

Paratypes: AMNH 17517 (6♂, 11♀), 17518 (4♂, 5♀), 17519 (1♂, 2♀), 17520 (1♂, 2♀).

Locality: Alice, Brooks Co. (AMNH 17515–17517), 10 mi south of Kerrville (AMNH 17518), Kerrville, Kerr Co. (AMNH 17519), 32 mi southeast of Laredo, Zapata Co. (AMNH 17520), Texas, United States.

Collector: S. and D. Mulaik, July (AMNH 17519), Aug. 24 (AMNH 17518), Sept. (AMNH 17520), Dec. (AMNH 17515–17517) 1939.

Remarks: ex University of Utah via AMNH Dept. Entomology. This species is now placed in the genus *Venezillo* Verhoeff, 1928 (Arcangeli, 1957: 119).

*Cubaris arizonicus* Mulaik and Mulaik, 1942: 10, figs. 22–30.

Holotype: AMNH 17521 (♂).

Allotype: AMNH 17522 (♀).

Paratypes: AMNH 16724 (2♀), 16725 (2♀), 17523 (1♂, 4♀).

Locality: 15 mi west of Robles, Pima Co. (AMNH 16724, 17521, 17522), Olberg, Pinal Co. (AMNH 16725), Rock Springs (AMNH 17523), Arizona, United States.

Collector: S. and D. Mulaik, Sept. 8, 1939 (AMNH 17523), Dec. 1940 (AMNH 16724, 16725, 17521, 17522).

Remarks: ex University of Utah via AMNH Dept. Entomology. The 49 additional paratypes are not in the University of Utah Department of Biology (Edmunds, personal commun.), nor in the Utah Museum of Natural History (Rickart, personal commun.); they are presumed lost. This species is now placed in the genus *Venezillo* Verhoeff, 1928 (Arcangeli, 1957: 119; Schultz, 1984: 315).

*Cubaris (Diploexochus) bananae* Van Name, 1920: 97–100, figs. 112–117.

Holotype: AMNH 3270 (♀).

Paratypes: AMNH 3268 (3♂, 3♀, 1 partial specimen), 3269 (1♂).

Locality: Banana, 6°S, 12°20'E (AMNH 3268, 3270), Zambi, 6°S, 12°50'E (AMNH 3269), Belgian Congo [= Zaire = Democratic Republic of the Congo].

Collector: H. Lang and J. Chapin, June (AMNH 3269), July–August (AMNH 3268, 3270), 1915.

Remarks: The collection date for AMNH 3268 was given erroneously as “1916” by Van Name (1920: 100). The current location of two additional paratypes from AMNH 3268 is unknown. This species is now placed in the genus *Tuberdillo* Arcangeli, 1941 (Schmalfuss and Ferrara, 1983: 147).

*Cubaris beebei* Van Name, 1924: 203–205, figs. 28–30.

Holotype: AMNH 4836 (♀).

Paratypes: AMNH 4825 (2♂, 3♀), 4826 (2♀).

Locality: Sifted from dead leaves, South Seymour (AMNH 4826), under stones, Eden Island (AMNH 4825, 4836), Galápagos Islands, Ecuador.

Collector: Harrison Williams Expedition, April 22 (AMNH 4826), 1923 (AMNH 4825, 4836).

Remarks: This species is now placed in the genus *Venezillo* Verhoeff, 1928 (Vandel, 1968: 57).

*Cubaris booneae* Van Name, 1936: 336–337, fig. 201.

Holotype: AMNH 6520 (♀).

Paratypes: AMNH 1813 (2♂, 3♀), 3549 (1♀).

Locality: Palm Beach, Montego Bay (AMNH 1813, 6520, 6520A), Moneague (AMNH 3549), Jamaica.

Collector: J. A. Grossbeck, March 11, 1911 (AMNH 1813, 6520, 6520A), unknown (AMNH 3549).

Remarks: This species is now placed in the genus *Venezillo* Verhoeff, 1928 (Arcangeli, 1957: 112).

*Cubaris chamberlini* Mulaik and Mulaik, 1942: 9–10, figs. 15–21.

Holotype: AMNH 16723 (♂).

Locality: Edinburg, Hidalgo Co., Texas, United States.

Collector: S. and D. Mulaik, June 1935.

Remarks: ex University of Utah via AMNH Dept. Entomology. AMNH 16723 is the holotype by monotypy. The collection date on the specimen label (March 1936) does not match the published date given above. This species is now placed in the genus *Venezillo* Verhoeff, 1928 (Arcangeli, 1957: 119).

*Cubaris cinchonae* Van Name, 1936: 391–393, fig. 238.

Holotype: AMNH 1814 (♀).

Paratype: AMNH 1814A (1♀).

Locality: Botanical Gardens, Cinchona, Jamaica.

Collector: J. A. Grossbeck, Feb. 24, 1911.

Remarks: This species was not discussed by Arcangeli (1957) and could be a true *Cubaris*.

*Cubaris culebrae* Van Name, 1936: 370–372, fig. 225.

Holotype: AMNH 6513 (♂).

Paratypes: AMNH 1810 (2♂), 1812 (3♂, 4♀), 7117 (3♂, 2♀).

Locality: Desecheo Island (AMNH 1810), Culebra Island (AMNH 1812, 6513), Puerto Rico, St. John, U.S. Virgin Islands (AMNH 7117).

Collector: F. E. Lutz, Feb. 18, 1914 (AMNH 1810), March 9, 1925 (AMNH 7117), W. M. Wheeler, March 4, 1906 (AMNH 1812, 6513).

Remarks: The repository of an additional Culebra Island paratype is not known. This species is



now placed in the genus *Venezillo* Verhoeff, 1928 (Arcangeli, 1957: 117).

*Cubaris mineri* Van Name, 1936: 383–385, fig. 233.

Holotype: AMNH 6515 (♀).

Paratypes: AMNH 6533 (1♂, 1♀).

Locality: Kamakusa, British Guiana.

Collector: H. Lang, Oct. 25, 1922 (AMNH 6533), Jan. 1923 (AMNH 6515).

Remarks: This was placed in the genus *Venezillo* Verhoeff, 1928, as the type of the subgenus *Vandelillo* Arcangeli, 1957, by original designation (Arcangeli, 1957: 121). *Vandelillo*, however, appears to be a synonym of the genus *Tuberdillo* Arcangeli, 1941 (Schmalfuss and Ferrara, 1983: 147).

*Cubaris moneaguensis* Van Name, 1936: 355–356, fig. 214.

Holotype: AMNH 6528 (♀).

Paratypes: AMNH 1809 (3♂, 3♀).

Locality: Moneague, Jamaica.

Collector: J. A. Grossbeck, Dec. 1911.

Remarks: The repository of an additional paratype is unknown. This species is now placed in the genus *Venezillo* Verhoeff, 1928, as *V. moneaguensis* [sic] (Arcangeli, 1957: 115).

*Cubaris oaxacana* Van Name, 1936: 356–357, fig. 215.

Holotype: AMNH 6517 (♀).

Paratypes: AMNH 1807 (1♂, 2♀).

Locality: San Geronimo, Oaxaca, Mexico.

Collector: A. Petrunkevitch, July 27, 1909.

Remarks: This species was placed in the genus *Armadillo* Latreille, 1804, as *A. oaxacanus* [sic] by Mulaik (1960: 202), but should correctly be placed in the genus *Venezillo* Verhoeff, 1928 (Arcangeli, 1957: 116).

*Cubaris phylax* Van Name, 1936: 353–355, fig. 213.

Holotype: AMNH 6525 (♂).

Locality: Cape Macao, east end of Santo Domingo.

Collector: F. N. DuBory, May 1913.

Remarks: AMNH 6525 is the holotype by monotypy. This species is now placed in the genus *Venezillo* Verhoeff, 1928 (Arcangeli, 1957: 115).

*Cubaris ramsdeni* Boone, 1934: 589–591, fig. 10.

Holotype: AMNH 6603 (♀).

Paratypes: AMNH 6604 (3♀), 6638 (1♂, 1♀).

Locality: "El Ocuja," Guantanamo, Cuba.

Collector: C. T. Ramsden, Oct. 3, 1913.

Remarks: An additional 15 paratypes were said to be in the collection of C. T. Ramsden in Guantanamo, Cuba (Boone, 1934: 591), but 2 of

those specimens are AMNH 6638 with the current repository of the remaining 13 specimens unknown. This species is now placed in the genus *Venezillo* Verhoeff, 1928 (Vandel, 1981: 73).

*Cubaris (Diploexochus) regulus* Van Name, 1920: 100–102, figs. 118–121.

Holotype: AMNH 3251 (♀).

Paratypes: AMNH 3251A (1♀), 3301 (1♀).

Locality: Stanleyville (= Kisangani), 0°30'N, 25°15'E (AMNH 3251, 3251A), in stomach of toad (*Bufo regularis* Reuss, 1833), Avakubi, 1°20'N, 27°40'E (AMNH 3301), Belgian Congo [= Zaire = Democratic Republic of the Congo].

Collector: H. Lang and J. Chapin, Oct. 2, 1909 (AMNH 3301), March 1915 (AMNH 3251, 3251A).

Remarks: This species is now placed in the genus *Tuberdillo* Arcangeli, 1941 (Schmalfuss and Ferrara, 1983: 150).

*Cubaris tanneri* Mulaik and Mulaik, 1942: 11: figs. 31–39.

Holotype: AMNH 17524 (♀).

Locality: Edinburg, Hidalgo Co., Texas, United States.

Collector: S. and D. Mulaik, April 1935.

Remarks: ex University of Utah via AMNH Dept. Entomology. AMNH 17524 is the holotype by monotypy. The "allotype" described by Schultz (1965: 104–106) was the first described male and not a type specimen. This species is now placed in the genus *Venezillo* Verhoeff, 1928 (Arcangeli, 1957: 119; Schultz, 1965: 104).

*Cubaris venezuelae* Van Name, 1942: 316, fig. 21.

Holotype: AMNH 9531 (♂).

Locality: Under decaying wood, Carret, Guarenas, Venezuela.

Collector: G. Vivas-Berthier, July 1939.

Remarks: AMNH 9531 is the holotype by monotypy. This species is a synonym of *Venezillo clausus* (Budde-Lund, 1885) (Vandel, 1952: 162).

*Cubaris watsoni* Van Name, 1936: 331–333, figs. 196, 197.

Holotype: AMNH 6514 (♀).

Paratypes: AMNH 6531 (2♀), 7034 (2♂, 1♀).

Locality: Mandeville, 2350 ft (AMNH 6514, 6531), Port Antonio (AMNH 7034), Jamaica.

Collector: F. E. Watson, Jan. 12, 1920 (AMNH 6514, 6531), R. Miller, Jr., March 29, 1935 (AMNH 7034).

Remarks: The additional specimen (AMNH 1808, ♂) mentioned by Van Name (1936: 333) is not here considered a paratype, as he stated that it

only "appears to be of this species." This species is now placed in the genus *Venezillo* Verhoeff, 1928 (Arcangeli, 1957: 111).

*Cubaris wheeleri* Van Name, 1936: 380–382, figs. 230, 231.

Holotype: AMNH 6518 (♂).

Paratypes: AMNH 6549 (5♂, 16♀).

Locality: Culebra Island, Puerto Rico.

Collector: W. M. Wheeler, March 9, 1906.

Remarks: The total number of type specimens was given as "about 30 specimens" by Van Name (1936: 382). Two additional paratypes (ex AMNH 6549) are MNRJ 8578 (P. Young, personal commun.); the repository of the remaining paratypes (if any) is unknown. This species is now placed in the genus *Venezillo* Verhoeff, 1928 (Arcangeli, 1957: 119).

*Delatorreia hoplites* Boone, 1934: 586–589, figs. 8a–c, 9.

Holotype: AMNH 6607 (♀).

Locality: Finca La Loma, Sierra de Cubitas, Camaguey Province, Cuba.

Collector: C. de la Torre.

Remarks: A paratype is in FPMNH and one paratype was in the Boone Collection (current repository unknown) (Boone, 1934: 589). This species is the type of the genus *Delatorreia* Boone, 1934 (Boone, 1934: 586).

*Dendromunna spinipes* Menzies, 1962: 167, fig. 52a, b.

Holotype: AMNH 12120 (♀).

Locality: V-14-32, 34°35'S, 17°31'E, 1861 m, Atlantic Ocean.

Collector: R/V "Vema," April 6, 1958.

Remarks: ex LGO. AMNH 12120 is the holotype by monotypy. This species is the type of the genus *Dendromunna* Menzies, 1962, by monotypy (Menzies, 1962: 167).

*Desmosoma birsteini* Menzies, 1962: 166, fig. 51k–m.

Holotype: AMNH 12112 (♀).

Locality: Theta-1-6, 31°41'–43'N, 68°08'W, 5159 m, Bermuda Plateau, near western edge of Bermuda Rise, Atlantic Ocean.

Collector: R/V "Theta," Sept. 26, 1956.

Remarks: ex LGO. AMNH 12112 is the holotype by monotypy. This species is now placed in the genus *Mirabilicoxa* Hessler, 1970 (Hessler, 1970: 63).

*Desmosoma magnispinum* Menzies, 1962: 165, fig. 51g–j.

Holotype: AMNH 12119 (♂) [LOST].

Locality: V-15-18, 10°13'N, 78°33'W, 1703–1905 m, Atlantic Ocean.

Collector: R/V "Vema," Nov. 10, 1958.

Remarks: AMNH 12119 is the holotype by monotypy. The holotype was lost either by R. J. Menzies or AMNH personnel prior to March 1964 (Menzies, letter on file in Dept. Invertebrates, AMNH). This species is now placed in the genus *Mirabilicoxa* Hessler, 1970, as *M. magnispina* (Menzies, 1962) (Hessler, 1970: 62).

*Desmosoma striata* Menzies, 1962: 165, fig. 51a–f.

Holotype: AMNH 12121 (♀).

Locality: V-12-5, 24°18'S, 14°07.5'E, 126 m, Atlantic Ocean.

Collector: R/V "Vema," May 4, 1957.

Remarks: ex LGO. AMNH 12121 is the holotype by monotypy. This species is now placed in the genus *Chelator* Hessler, 1970 (Hessler, 1970: 63).

*Echinothambema ophiuroides* Menzies, 1956: 11, fig. 4.

Holotype: AMNH 11760 (ambisexual).

Locality: V-7-1, 20°3.2'N, 68°21.1'W, 4983–5001 m, north rim, Puerto Rico Trench, Atlantic Ocean.

Collector: R/V "Vema," Nov. 12, 1955.

Remarks: AMNH 11760 is the holotype by monotypy. This species is the type of the genus *Echinothambema* Menzies, 1956, by monotypy and the genus is the type of the family Echinothambemidae Menzies, 1956, by monotypy (Menzies, 1956: 10). The familial spelling was emended to Echinothambematidae (Kensley and Schotte, 1989: 263).

*Erichsonella cortezi* Brusca and Wallerstein, 1977: 10–15, figs. 6, 7.

Paratype: AMNH **uncataloged** (1♂) [NEVER RECEIVED].

Locality: Rocky low intertidal, from *Sargassum* sp., Puerto Peñasco, Sonora, Mexico, Pacific Ocean.

Collector: R.C. Brusca, June 8, 1975.

Remarks: The holotype ♂ was AHF type #706 and the allotype ♀ was AHF type #706a, now LACM 70–158.1 and 70–159.1, respectively (Wetzer et al., 1991: 40). The additional paratype ♂ was AHF 81–01, now LACM 72–301.1 (Wetzer et al., 1991: 40). The specimen that was intended for deposition in AMNH (Brusca and Wallerstein, 1977: 15) was never received.

*Eubelum asperius* Van Name, 1920: 86–87, figs. 63–70.

Holotype: AMNH 3256 (♀), 3256A (slide).

Locality: Zambi, 6°S, 12°50'E, Belgian Congo [= Zaire = Democratic Republic of the Congo].

Collector: H. Lang and J. Chapin, June 1915.

Remarks: The body of the holotype is AMNH

- 3256 and the appendages are AMNH 3256A. AMNH 3256, 3256A is the holotype by monotypy.
- Eubelum garambae* Van Name, 1920: 89–91, figs. 71–79.  
 Holotype: AMNH 3260 (♀), 3260A (slide).  
 Locality: Garamba, 4°10'N, 29°40'E, Belgian Congo [= Zaire = Democratic Republic of the Congo].  
 Collector: H. Lang & J. Chapin, March 1912.  
 Remarks: The body of the holotype is AMNH 3260 and the appendages are AMNH 3260A. AMNH 3260, 3260A is the holotype by monotypy.
- Eubelum propinquum* Van Name, 1920: 84–85, figs. 56–62.  
 Holotype: AMNH 3271 (♂ slide).  
 Locality: "From mushroom-shaped termite structure," Thysville (= Mbanza-Ngungu), 5°30'S, 15°E, Belgian Congo [= Zaire = Democratic Republic of the Congo].  
 Collector: H. Lang and J. Chapin, June 2, 1915.  
 Remarks: The holotype is a slide of appendages only and is the holotype by monotypy. The other ♂ specimen (AMNH 3249) cited by Van Name (1920: 85) is not here considered a paratype as it was mentioned as only "probably of this same species." This species is a synonym of *E. lubricum* Budde-Lund, 1885 (Ferrara and Taiti, 1979: 145).
- Eubelum stanleyanum* Van Name, 1920: 78–81, figs. 35–45.  
 Holotype: AMNH 3257 (♀), 3257A (slide).  
 Paratypes: AMNH 3257B (1♂), 3244 (3♂, 21♀), 3258 (3♂, 2♀, 1 partial specimen), 3265 (1♀), 3267 (2♂, 2♀), 3300 (1♀).  
 Locality: From stomach of a toad (*Bufo regularis* Reuss, 1833) (AMNH 3300), Stanleyville (= Kisangani), 0°30'N, 25°15'E (AMNH 3244, 3257, 3258, 3267), Bengamisa, 1°N, 25°10'E, Belgian Congo [= Zaire = Democratic Republic of the Congo].  
 Collector: H. Lang and J. Chapin, Aug. 4 (AMNH 3300), 10 (AMNH 3258), 29 (AMNH 3267) 1909, Sept. 1914 (AMNH 3265), March 1915 (AMNH 3244, 3257).  
 Remarks: The body of the holotype is AMNH 3257 and the appendages are AMNH 3257A. AMNH 3257 and 3257A are in the same vial. AMNH 3257B was used as the basis for the drawings of the ♂ specimen. Two additional paratypes (ex AMNH 3267) are MNRJ 3309 (P. Young, personal commun.). The location of 7 specimens from AMNH 3244 and 1 specimen from AMNH 3258 is unknown (see Van Name, 1920: 81 for detailed specimen count).
- Eubelum tenebrarum* Van Name, 1920: 91–92, figs. 80–90.  
 Syntypes: AMNH 3242 (several specimens), 3242A (slide), 3266 (several specimens), 3266A (slide).  
 Locality: "From the shelves of a cave," Thysville (= Mbanza-Ngungu), 5°30'S, 15°E, Belgian Congo [= Zaire = Democratic Republic of the Congo].  
 Collector: H. Lang and J. Chapin, June 2, 1915.  
 Remarks: AMNH 3266A is marked "type ♀ mouthparts." The total number of specimens was given by Van Name (1920: 92) as "about 60," but could not be verified at the time of this writing because AMNH 3242, 3242A, and 3266 are unavailable for examination. This species is the type of the genus *Trogleubelum* Arcangeli, 1950, by monotypy (Arcangeli, 1950: 29).
- Eurycope acutitelson* Menzies, 1962: 143–145, fig. 36a–e.  
 Holotype: AMNH 12096 (♂).  
 Allotype: AMNH 12097 (♀).  
 Paratypes: AMNH 12098 (6♂, 6♀).  
 Locality: V-14-29, 41°03'S, 07°49'E, 4961 m, southwestern flank of Schmidt-Ott Rise, southwest of Cape Town, South Africa, Atlantic Ocean.  
 Collector: R/V "Vema," March 30, 1958.  
 Remarks: ex LGO.
- Eurycope ipthima* Wilson, 1981: 277–284, figs. 1–10.  
 Paratypes: AMNH 16253 (5 specimens).  
 Locality: Cruise 106, WHOI station 326, 50°04.9' to 50°05.3'N, 14°23.8' to 14°24.8'W, 3859 m, Atlantic Ocean.  
 Collector: R/V "Chain," Aug. 22, 1973.  
 Remarks: The holotype ♀ is USNM 181106 and additional paratypes are USNM 181107 (10 specimens), ZMUC CRU6888 (5 specimens) and were formerly in the Robert R. Hessler Collection (273 specimens), now in the possession of Buz Wilson (AM) (Wilson, personal commun.).
- Eurycope nodosa* Menzies, 1962: 145, fig. 36f–h.  
 Holotype: AMNH 12106 (♀).  
 Paratype: AMNH 12107 (1♀).  
 Locality: V-14-31, 36°34'S, 14°08'E, 4893 m, Lower Continental Rise, southwest of Cape Town, South Africa, Atlantic Ocean.  
 Collector: R/V "Vema," April 4, 1958.  
 Remarks: ex LGO.
- Eurycope ovaloides* Menzies, 1962: 145, fig. 36i, j.  
 Holotype: AMNH 12066 (♀).  
 Paratype: AMNH 12067 (1♀).

Locality: V-12-2, 30°14.9'S, 13°03'E, 3045 m, Upper Continental Rise, southeast of Port Nolloth, South Africa, Atlantic Ocean.

Collector: R/V "Vema," April 30, 1957.

Remarks: ex LGO. This species is now placed in *Disconectes* Wilson and Hessler, 1981 (Wilson and Hessler, 1981: 406).

*Eurydice carangis* Van Name, 1920: 49–53, figs. 1–5.

Holotype: AMNH 3250 (♀), 3250A (slide).

Paratypes: AMNH 3252 (40 specimens), 3253 (31 specimens), 3253A (slide), 3255 (4 specimens).

Host: *Caranx hippos* (Linnaeus, 1766) (Osteichthyes) (AMNH 3250, 3250A, 3253, 3255), "dead sea stars" (AMNH 3252).

Locality: In market, St. Antonio (= Soyo), 6°10'S, 12°20'E (AMNH 3250, 3250A, 3253), "Belgian Congo" (= Angola), in market, Banana, 6°S, 12°20'E (AMNH 3252, 3255), Belgian Congo [= Zaire = Democratic Republic of the Congo].

Collector: H. Lang and J. Chapin, July (AMNH 3255) and Aug. (AMNH 3250, 3250A, 3252, 3253) 1915.

Remarks: The body of the holotype is AMNH 3250 and the appendages are AMNH 3250A. AMNH 3253A contains the mouthparts of a ♀ specimen from AMNH 3253. An additional paratype is USNM 06341 (ex AMNH 3253). The total number of specimens in AMNH 3253 was given by Van Name (1920: 53) as "about 50"; the repository of the additional specimens from this lot is unknown. This species is a synonym of *Excirrolana latipes* (Barnard, 1914) (De Grave and Jones, 1991: 150).

*Exosphaeroma bondi* Van Name, 1936: 512–515, fig. 316.

Holotype: AMNH 6923 (♂).

Allotype: AMNH 6924 (♀).

Paratypes: 6925 (3♂, 2♀).

Locality: Under stones near the shore, [Lake] Étang Saumatre, Haiti.

Collector: R. M. Bond, Feb. 20, 1933.

Remarks: "About" 18 specimens (= paratypes) were returned to R. M. Bond at Yale by Van Name (1936: 515), but none can be located in YPM (Lazo-Wasem, personal commun.). This species is now placed in the genus *Cassinidea* Hansen, 1905 (Bruce, 1994: 1151).

*Exosphaeroma insulare* Van Name, 1940: 125–126, fig. 17a, b.

Holotype: AMNH 8092 (♀).

Paratypes: AMNH 8092A (1♂), 8109 (3 specimens), 8109A (slide).

Locality: In association with *Physa virgata* [= *Physella virgata* (Gould, 1855)] (Gastropoda:

Pulmonata), fresh water, San Nicolas Island, California, United States.

Collector: T.D.A. Cockerell, July 1938.

Remarks: AMNH 8109A is appendages of a ♂ specimen from AMNH 8109. AMNH 8092, 8092A are in the same vial. One additional type specimen ("syntype") is LACM 38–270.1 (ex AMNH 8092[A]) (Wetzer et al., 1991: 33) and 2 others are USNM 079306. The repository of the additional 3 paratype specimens is unknown. This species is now placed in the genus *Gnorimosphaeroma* Menzies, 1954 (Menzies, 1954: 7).

*Glabroserolis specialis* Menzies, 1962: 189, fig. 69.

Holotype: AMNH 12124 (♀).

Paratypes: AMNH 12125 (1♀, 1 fragment).

Locality: V-14-31, 36°34'S, 14°08'E, 4893 m, Lower Continental Rise, southwest of Cape Town, South Africa, Atlantic Ocean.

Collector: R/V "Vema," April 4, 1958.

Remarks: ex LGO. This species is the type of the genus *Glabroserolis* Menzies, 1962, by monotypy (Menzies, 1962: 189).

*Gnathia albescentoides* Menzies, 1962: 92, fig. 3f–h.

Holotype: AMNH 12017 (♂).

Allotype: AMNH 12018 (♀).

Paratypes: AMNH 12019 (5♂).

Locality: V-14-32, 34°35'S, 17°31'E, 1861 m, Atlantic Ocean.

Collector: R/V "Vema," April 6, 1958.

Remarks: ex LGO.

*Gnathia vema* Menzies, 1962: 90, fig. 2.

Holotype: AMNH 12020 (♂).

Paratypes: AMNH 12021 (1♀), 12022 (2♂).

Locality: V-14-33, 34°26'S, 17°32'E, 708 m, Atlantic Ocean.

Collector: R/V "Vema," April 6, 1958.

Remarks: ex LGO.

*Gnorimosphaeroma noblei* Menzies, 1954: 18–22, figs. 7f–j, 8, 9.

Holotype: AMNH 11549 (♂).

Allotype: AMNH 11550 (♀).

Paratypes: AMNH 11551 (71 specimens).

Locality: Marshall (AMNH 11549, 11550), Shell Beach (AMNH 11551), Tomales Bay, Marin Co., California, Pacific Ocean.

Collector: R. J. Menzies, Feb. 14, 1948 (AMNH 11549, 11550), May 3, 1952 (AMNH 11551).

Remarks: Additional paratypes are USNM 93497 (cited by Menzies, 1954, as 7 specimens, but only 5 extant) and in UC Davis (14 specimens) (Menzies, 1954: 22).

*Gnorimosphaeroma oregonensis lutea* Menzies, 1954: 12–17, figs. 1–4, 6.

Holotype: AMNH 11546 (♂).

Allotype: AMNH 11547 (♀).

Paratypes: AMNH 11548 (4♂, 25♀).

Locality: Shell Beach, Tomales Bay, Marin Co., California, Pacific Ocean.

Collector: M. A. Miller, L. Tevis, and R. J. Menzies, May 3, 1952.

Remarks: AMNH 11546 and 11547 are in the same vial. Additional paratypes are USNM 93490 (1♂, 19♀) and in UC Davis (45 specimens) (Menzies, 1954: 12). This taxon is a synonym of *G. insulare* (Van Name, 1940) (Hoeslandt, 1977: 54).

*Haplomesus bifurcatus* Menzies, 1962: 121, fig. 21c–i.

Holotype: AMNH 12010 (♂).

Paratype: AMNH 12010A (1♂ fragment).

Locality: V-12-1, 38°58.5'S, 41°45'W, 5041 m, northern part of Argentine Rise, southeast of Río Grande, Argentina, Atlantic Ocean.

Collector: R/V "Vema," April 6, 1957.

Remarks: ex LGO.

*Haplomesus ornatus* Menzies, 1962: 121, fig. 21a, b.

Holotype: AMNH 12024 (♂).

Paratypes: AMNH 12023 (1♂), 12024A (1♂ fragment), 12179 (2 fragments).

Locality: V-12-6, 23°00'S, 08°11'E, 4050 m, crest of Walvis Ridge, Front Range, west of Walvis Bay (AMNH 12024), V-14-29, 41°03'S, 07°49'E, 4961 m, southwestern flank of Schmidt-Ott Rise, southwest of Cape Town, South Africa (AMNH 12023), V-15-130, 42°00'S, 45°01.5'W, 5302 m, southwest flank of Argentine Rise, southeast of Bahía Blanca, Argentina (AMNH 12179), Atlantic Ocean.

Collector: R/V "Vema," May 7, 1957 (AMNH 12024), March 30, 1958 (AMNH 12023), April 2, 1959 (AMNH 12179).

Remarks: ex LGO.

*Haplomesus tropicalis* Menzies, 1962: 120–121, fig. 20k–m.

Holotype: AMNH 12062 (♂).

Allotype: AMNH 12063 (♀).

Paratype: AMNH 12206 (1♂ fragment).

Locality: V-14-48, 34°14'N, 24°10'E, 2505 m (AMNH 12062, 12063), V-15-10, 14°05'N, 75°25'W, 4077 m, central part of Colombia Abyssal Plain (AMNH 12206), Atlantic Ocean.

Collector: R/V "Vema," July 9 (AMNH 12062, 12063), Nov. 7, 1958 (AMNH 12206).

Remarks: ex LGO.

*Haploniscus acutus* Menzies, 1962: 103, fig. 11a–c.

Holotype: AMNH 11987 (♀).

Locality: V-14-28, 45°34'S, 06°02'E, 4618 m, western flank of Walvis Ridge, northwest of Meteor Seamount, Atlantic Ocean.

Collector: R/V "Vema," March 28, 1958.

Remarks: ex LGO. AMNH 11987 is the holotype by monotypy.

*Haploniscus capensis* Menzies, 1962: 103, fig. 11i–k.

Holotype: AMNH 12155A (♂).

Allotype: AMNH 12155B (♀).

Paratypes: AMNH 12155 (9♂, 10♀, 1 juvenile).

Locality: V-14-33, 34°26'S, 17°32'E, 708 m, Atlantic Ocean.

Collector: R/V "Vema," April 6, 1958.

Remarks: ex LGO. AMNH 12155A and 12155B are in the same vial.

*Haploniscus elevatus* Menzies, 1962: 99–100, fig. 9a–d.

Holotype: AMNH 11988 (♂).

Locality: V-14-29, 41°03'S, 07°49'E, 4961 m, southwestern flank of the Schmidt-Ott Rise, southwest of Cape Town, South Africa, Atlantic Ocean.

Collector: R/V "Vema," March 30, 1958.

Remarks: ex LGO. AMNH 11988 is the holotype by monotypy. This species is now placed in the genus *Chauliodoniscus* Lincoln, 1985 (Lincoln, 1985: 52).

*Haploniscus generalis* Menzies and George, 1972: 118, fig. 78.

Holotype: AMNH 12948 (♂).

Locality: V-15-61, 04°15'N, 85°06'W, 3254–3260 m, off Colombia, Pacific Ocean.

Collector: R/V "Vema," Dec. 1, 1958.

Remarks: AMNH 12948 is the holotype by monotypy. This species is now placed in the genus *Mastigoniscus* Lincoln, 1985 (Lincoln, 1985: 52).

*Haploniscus gratissimus* Menzies and George, 1972: 113, figs. 74, 75.

Holotype: AMNH 12950 (♂).

Locality: V-15-43, 09°18'N, 88°54'W, 3317–3327 m, off Costa Rica, Pacific Ocean.

Collector: R/V "Vema," Nov. 20, 1958.

Remarks: AMNH 12950 is the holotype by monotypy. This species is now placed in the genus *Mastigoniscus* Lincoln, 1985 (Lincoln, 1985: 53).

*Haploniscus gratus* Menzies and George, 1972: 113, 118, figs. 76, 77.

Holotype: AMNH 12949 (♂).

Locality: V-15-65, 06°08'S, 82°41'W, 5825–5841 m, Peru-Chile Trench, off Peru, Pacific Ocean.

Collector: R/V "Vema," Dec. 5, 1958.

Remarks: AMNH 12949 is the holotype by monotypy. This species is now placed in the genus *Mastigoniciscus* Lincoln, 1985 (Lincoln, 1985: 53).

*Haploniscus minutus* Menzies, 1962: 99, fig. 7a-c.

Holotype: AMNH 11985 (♀).

Locality: V-12-1A, 38°58.5'S, 41°45'W, 5041 m, northern part of Argentine Rise, southeast of Río Grande, Argentina, Atlantic Ocean.

Collector: R/V "Vema," April 6, 1957.

Remarks: ex LGO. AMNH 11985 is the holotype by monotypy.

*Haploniscus nondescriptus* Menzies, 1962: 102-103, fig. 10j.

Holotype: AMNH 11998 (♀).

Paratypes: AMNH 11999 (2♀).

Locality: V-14-31, 36°34'S, 14°08'E, 4893 m, Lower Continental Rise, southwest of Cape Town, South Africa, Atlantic Ocean.

Collector: R/V "Vema," April 4, 1958.

Remarks: ex LGO.

*Haploniscus ovalis* Menzies, 1962: 106, fig. 13d-g.

Holotype: AMNH 11989 (♂).

Allotype: AMNH 11989A (♀).

Paratypes: AMNH 11990 (6♀, 1 fragment).

Locality: V-12-1, 38°58.5'S, 41°45'W, 5041 m, northern part of Argentine Rise, southeast of Río Grande, Argentina, Atlantic Ocean.

Collector: R/V "Vema," April 6, 1957.

Remarks: ex LGO. AMNH 11989 and 11989A are in the same vial. This species is now placed in the genus *Chauliodoniscus* Lincoln, 1985 (Lincoln, 1985: 52).

*Haploniscus parallelus* Menzies, 1962: 103, fig. 11d-h.

Holotype: AMNH 11981 (♂).

Allotype: AMNH 11981A (♀).

Paratypes: AMNH 11981B (1♀, 2 fragments), 12151 (2♀) [LOST].

Locality: V-12-1, 38°58.5'S, 41°45'W, 5041 m, northern part of Argentine Rise, southeast of Río Grande, Argentina (AMNH 11981, 11981A, 11981B), V-14-29, 41°03'S, 07°49'E, 4961 m, southwestern flank of Schmidt-Ott Rise, southwest of Cape Town, South Africa (AMNH 12151), Atlantic Ocean.

Collector: R/V "Vema," April 6, 1957 (AMNH 11981), March 30, 1958 (AMNH 12151).

Remarks: ex LGO. AMNH 11981 and 11981A are in the same vial. The vial containing AMNH 12151 is empty and the label indicates that the specimens were lost. This species is now placed in the genus *Chauliodoniscus* Lincoln, 1985 (Lincoln, 1985: 52).

*Haploniscus percavix* Menzies, 1962: 101, fig. 10d, e.

Holotype: AMNH 11991 (♂).

Allotype: AMNH 11992 (♀).

Paratypes: AMNH 12148 (1 specimen), 12295 (1♀).

Locality: V-12-4, 25°33'S, 12°27'E, 2972 m, Upper Continental Rise, off Walvis Bay (AMNH 12148), V-14-31, 36°34'S, 14°08'E, 4893 m, Lower Continental Rise, southwest of Cape Town (AMNH 11991, 11992), South Africa, station 15, 35°37'N, 30°51'W (AMNH 12295), Atlantic Ocean.

Collector: R/V "Vema," May 3, 1957 (AMNH 12148), April 4, 1958 (AMNH 11991, 11992); R/V "Atlantis," May 3, 1957 (AMNH 12295).

Remarks: ex LGO. The repository of the paratype ♂ from V-14-31 and an additional specimen from V-12-4 is unknown.

*Haploniscus polaris* Menzies, 1962: 105, fig. 12a, b.

Holotype: AMNH 12000 (♀).

Locality: V-14-29, 41°03'S, 07°49'E, 4961 m, southwestern flank of Schmidt-Ott Rise, southwest of Cape Town, South Africa, Atlantic Ocean.

Collector: R/V "Vema," March 30, 1958.

Remarks: ex LGO. AMNH 12000 is the holotype by monotypy.

*Haploniscus princeps* Menzies, 1962: 101, fig. 10a-c.

Holotype: AMNH 11984 (♀).

Allotype: AMNH 11984A (♂ fragment).

Paratypes: AMNH 11984B (3♀), 12359 (1♂, 11♀).

Locality: V-12-2, 30°14.9'S, 13°03'E, 3045 m, Upper Continental Rise southeast of Port Nolloth (AMNH 12359), V-14-31, 36°34'S, 14°08'E, 4893 m, Lower Continental Rise, southwest of Cape Town (AMNH 11984, 11984A, 11984B), South Africa, Atlantic Ocean.

Collector: R/V "Vema," April 30, 1957 (AMNH 12359), April 4, 1958 (AMNH 11984, 11984A, 11984B).

Remarks: ex LGO. AMNH 11984 and 11984A are in the same vial. This species is now placed in the genus *Chauliodoniscus* Lincoln, 1985 (Lincoln, 1985: 52).

*Haploniscus quadrifrons* Menzies, 1962: 100-101, fig. 9e-g.

Holotype: AMNH 11993 (♂).

Paratypes: AMNH 11994 (2 fragments), 12152 (1♂).

Locality: V-12-10, 05°53.5'S, 09°51.5'E, 3015 m, northern wall of Congo Submarine Canyon,

Upper Continental Rise (AMNH 11993, 11994), V-12-11, 06°19.3'S, 08°18.5'E, 3916 m, Congo Cone, near active canyon on Lower Continental Rise (AMNH 12152), Atlantic Ocean.

Collector: R/V "Vema," May 21 (AMNH 11993, 11994), 23 (AMNH 12152), 1957.

Remarks: ex LGO. This species is now placed in the genus *Chauliodoniscus* Lincoln, 1985 (Lincoln, 1985: 52).

*Haploniscus robinsoni* Menzies and Tinker, 1960: 3–4, fig. 1.

Holotype: AMNH 12011 (♂).

Allotype: AMNH 12012 (♀).

Paratypes: AMNH 12013 (2♂).

Locality: V-15-63, 03°15'S, 82°30'W, 2861–2864 m, off Ecuador, Pacific Ocean.

Collector: R/V "Vema," Dec. 4, 1958.

Remarks: ex LGO.

*Haploniscus rugosus* Menzies, 1962: 106, fig. 13a–c.

Holotype: AMNH 11983 (♀).

Paratypes: AMNH 11983A (5 juveniles) [LOST], 12147 (1♂, 1♀).

Locality: V-12-2, 30°14.9'S, 13°03'E, 3045 m, Upper Continental Rise, southeast of Port Nolloth (AMNH 12147), V-14-31, 36°34'S, 14°08'E, 4893 m, Lower Continental Rise, southwest of Cape Town (AMNH 11983, 11983A), South Africa, Atlantic Ocean.

Collector: R/V "Vema," April 30, 1957 (AMNH 12147), April 4, 1958 (AMNH 11983, 11983A).

Remarks: ex LGO. AMNH 11983A could not be located in the AMNH collection and was probably lost during transfer from LGO.

*Haploniscus spatulifrons* Menzies, 1962: 99, fig. 7d–h.

Holotype: AMNH 11982 (♂).

Allotype: AMNH 11982A (♀).

Locality: V-14-28, 45°34'S, 06°02'E, 4618 m, western flank of the Walvis Ridge, northwest of Meteor Seamount, Atlantic Ocean.

Collector: R/V "Vema," March 28, 1958.

Remarks: ex LGO.

*Haploniscus telus* Menzies, 1962: 105–106, fig. 12c–e.

Holotype: AMNH 12008 (♀).

Locality: V-14-29, 41°03'S, 07°49'E, 4961 m, southwestern flank of Schmidt-Ott Rise, southwest of Cape Town, South Africa, Atlantic Ocean.

Collector: R/V "Vema," March 30, 1958.

Remarks: ex LGO. AMNH 12008 is the holotype by monotypy.

*Haploniscus tricornis* Menzies, 1962: 101–102, fig. 10f–i.

Holotype: AMNH 11995 (♂).

Paratypes: AMNH 12149 (1♂, 1♀).

Locality: V-14-23, 55°29'S, 37°57'W, 3770 m, archipelagic apron of Menzies Seamount, southwest of South Georgia, eastern Scotia Sea (AMNH 12149), V-14-28, 45°34'S, 06°02'E, 4618 m, western flank of Walvis Ridge, northwest of Meteor Seamount (AMNH 11995), Atlantic Ocean.

Collector: R/V "Vema," March 6 (AMNH 12149), 28 (AMNH 11995), 1958.

Remarks: ex LGO.

*Haploniscus tricornoides* Menzies, 1962: 106, fig. 12f, g.

Holotype: AMNH 12001 (♀).

Locality: V-14-29, 41°03'S, 07°49'E, 4961 m, southwestern flank of Schmidt-Ott Rise, southwest of Cape Town, South Africa, Atlantic Ocean.

Collector: R/V "Vema," March 30, 1958.

Remarks: ex LGO. AMNH 12001 is the holotype by monotypy.

*Haploniscus tridens* Menzies, 1962: 99, fig. 8.

Holotype: AMNH 11996 (♂).

Allotype: AMNH 11996A (♀).

Paratype: AMNH 12173 (2 intersex).

Locality: V-12-1, 38°58.5'S, 41°45'W, 5041 m, northern part of Argentine Ridge, southeast of Río Grande (AMNH 11996, 11996A), V-15-128, 44°53.3'S, 51°26.5'W, 5845 m, southwest flank of Argentine Rise, southeast of Bahía Blanca (AMNH 12173), Argentina, Atlantic Ocean.

Collector: R/V "Vema," April 6, 1957 (AMNH 11996, 11996A), March 31, 1959 (AMNH 12173).

Remarks: ex LGO. The repository of one fragment from V-12-1 is unknown.

*Haploniscus trituberculatus* Menzies, 1962: 103–105, fig. 11l–q.

Holotype: AMNH 12006 (♂).

Allotype: AMNH 12007 (♀).

Paratypes: AMNH 12007A (2♂, 3♀, 2 fragments), 12288 (1♀ fragment).

Locality: V-14-28, 45°34'S, 06°02'E, 4618 m, western flank of Walvis Ridge, northwest of Meteor Seamount (AMNH 12006, 12007, 12007A), V-15-130, 42°00'S, 45°01.5'W, 5302 m, southwest flank of Argentine Rise, southeast of Bahía Blanca, Argentina (AMNH 12288), Atlantic Ocean.

Collector: R/V "Vema," March 28, 1958 (AMNH 12006, 12007, 12007A), April 2, 1959.

Remarks: ex LGO. This species is now placed in

the genus *Chauliodoniscus* Lincoln, 1985 (Lincoln, 1985: 52).

*Haploniscus tropicalis* Menzies, 1962: 106, fig. 12h, i.

Holotype: AMNH 12029 (♀).

Paratype: AMNH 12034 (1♀).

Locality: V-15-15, 10°11'N, 78°30'W, 1715 m (AMNH 12029), V-15-16, 10°11'N, 78°30'W, 1534-1616 m (AMNH 12034), Atlantic Ocean.

Collector: R/V "Vema," Nov. 9, 1958.

Remarks: ex LGO.

*Haploniscus tuberculatus* Menzies, 1962: 99, fig. 7i-k.

Holotype: AMNH 11986 (♀).

Locality: V-14-28, 45°34'S, 06°02'E, 4618 m, western flank of Walvis Ridge, northwest of Meteor Seamount, Atlantic Ocean.

Collector: R/V "Vema," March 28, 1958.

Remarks: ex LGO. AMNH 11986 is the holotype by monotypy.

*Haploniscus unicornis* Menzies, 1956: 8-9, fig. 3.

Holotype: AMNH 11759 (♀).

Locality: V-7-1, 20°3.2'N, 68°21.1'W, 4983-5001 m, north rim, Puerto Rico Trench, Atlantic Ocean.

Collector: R/V "Vema," Nov. 12, 1955.

Remarks: ex LGO. AMNH 11759 is the holotype by monotypy.

*Heteromesus bifurcatus* Menzies, 1962: 122, fig. 22c.

Holotype: AMNH 12061 (♀ fragment).

Locality: V-15-9, 14°05'N, 75°25'W, 4077 m, central part of Colombia Abyssal Plain, Atlantic Ocean.

Collector: R/V "Vema," Nov. 7, 1958.

Remarks: ex LGO. AMNH 12061 is the holotype by monotypy.

*Hydroniscus ornatus* Menzies, 1962: 109, fig. 15a-h.

Holotype: AMNH 12025 (♂).

Allotype: AMNH 12026 (♀).

Paratypes: AMNH 12027 (3♀), 12275 (1♀).

Locality: V-14-28, 45°34'S, 06°02'E, 4618 m, western flank of Walvis Ridge, northwest of Meteor Seamount (AMNH 12025-12027), V-15-133, 39°55.4'S, 42°38.8'W, 3953-3962 m, north central part of Argentine Rise (AMNH 12275), Atlantic Ocean.

Collector: R/V "Vema," March 28, 1958 (AMNH 12025-12027), April 24, 1959 (AMNH 12275).

Remarks: ex LGO.

*Hydroniscus quadrifrons* Menzies, 1962: 109-110, fig. 15i-m.

Holotype: AMNH 12014 (♂).

Allotype: AMNH 12015 (♀).

Paratypes: AMNH 12016 (4♂, 6♀), 12164 (2♂, 1 fragment), 12170 (3♂), 12171 (1♀), 12172 (1 fragment), 12174 (1♂).

Locality: V-15-130, 42°00'S, 45°01.5'W, 5302 m, southwest flank of Argentine Rise, southeast of Bahía Blanca, Argentina (AMNH 12171), V-15-145, 22°01.5'N, 66°23.5'W, 5688 m (AMNH 12164), V-15-147, 21°18.7'N, 65°13.4'W, 5419-"?" m (AMNH 12014-12016), V-15-148, 21°35'N, 67°09'W, 5162-5172 m (AMNH 12172), V-15-149, 21°32'N, 66°37'W, 5276-5294 m (AMNH 12174), V-15-150, 20°21.3'N, 66°24'W, 5497-5481 m (AMNH 12170), Antilles Outer Ridge, north of Puerto Rico Trench, north of Puerto Rico, Atlantic Ocean.

Collector: R/V "Vema," April 2 (AMNH 12171), June 1 (AMNH 12164), 4 (AMNH 12014-12016), 6 (AMNH 12172), 7 (AMNH 12174), 11 (AMNH 12170), 1959.

Remarks: ex LGO. AMNH 12016 contains one too few paratypes, but AMNH 12164 contains one too many, so one ♂ specimen could have been switched between lots. AMNH 12174 is missing 1 fragmentary specimen.

*Janirella bifida* Menzies, 1962: 168, fig. 53a-d.

Holotype: AMNH 12113 (intersex).

Locality: V-14-31, 36°34'S, 14°08'E, 4893 m, Lower Continental Rise, southwest of Cape Town, South Africa, Atlantic Ocean.

Collector: R/V "Vema," April 4, 1958.

Remarks: ex LGO. AMNH 12113 is the holotype by monotypy. The genus is correctly spelled *Janirella* Bonier, 1896 (Wolff, 1965: 319).

*Janirella magnifrons* Menzies, 1962: 169-170, fig. 54c, d.

Holotype: AMNH 12118 (♀).

Locality: V-14-28, 45°34'S, 06°02'E, 4618 m, western flank of Walvis Ridge, northwest of Meteor Seamount, Atlantic Ocean.

Collector: R/V "Vema," March 28, 1958.

Remarks: ex LGO. AMNH 12118 is the holotype by monotypy. The genus is correctly spelled *Janirella* Bonier, 1896 (Wolff, 1965: 319).

*Janirella vemae* Menzies, 1956: 12, fig. 5.

Holotype: AMNH 11761 (ambisexual).

Locality: V-7-1, 20°3.2'N, 68°21.1'W, 4983-5001 m, north rim, Puerto Rico Trench, Atlantic Ocean.

Collector: R/V "Vema," Nov. 12, 1955.

Remarks: ex LGO. AMNH 11761 is the holotype by monotypy. The genus is correctly spelled *Janirella* Bonier, 1896 (Wolff, 1965: 319).

*Ichthyoxenos expansus* Van Name, 1920: 60-63, figs. 14, 15.

Holotype: AMNH 3261 (♀).



Host: From gills of *Eugnathichthys eetveldii* Boulenger, 1898 (Osteichthyes).

Locality: Poko, 3°10'N, 26°50'E, on tributary of Uele River, Belgian Congo [= Zaire = Democratic Republic of the Congo].

Collector: H. Lang and J. Chapin, July 1913.

Remarks: AMNH 3261 is the holotype by monotypy. This species is now placed in the genus *Livoneca* Leach, 1818 (Brusca, 1981: 131).

*Ilyarachna africana* Menzies, 1962: 159–160, fig. 47a.

Holotype: AMNH 12080 (♀) [LOST].

Paratype: AMNH 12081 (1♀) [LOST].

Locality: V-12-2, 30°14.9'S, 13°03'E, 3045 m, Upper Continental Rise, southeast of Port Nolloth, South Africa, Atlantic Ocean.

Collector: R/V "Vema," April 30, 1957.

Remarks: ex LGO. Both the holotype and paratype appear to have been lost during or after return from loan in 1973 (Thistle, personal commun.); neither lot could be located in AMNH. This species is now placed in the genus *Betamorpha* Hessler and Thistle, 1975 (Hessler and Thistle, 1975: 157).

*Ilyarachna argentinae* Menzies, 1962: 160, fig. 48a–d.

Holotype: AMNH 12041 (intersex fragment).

Locality: V-12-1A, 38°58.5'S, 41°45'W, 5041 m, northern part of Argentine Rise, southeast of Río Grande, Argentina, Atlantic Ocean.

Collector: R/V "Vema," April 6, 1957.

Remarks: ex LGO. AMNH 12041 is the holotype by monotypy. This species is now placed in the genus *Bathybadistes* Hessler and Thistle, 1975 (Hessler and Thistle, 1975: 157).

*Ilyarachna calidus* George and Menzies, 1968: 367–371, figs. 1, 2.

Holotype: AMNH 13030 (♂).

Allotype: AMNH 13031 (♀).

Paratypes: AMNH 13032 (1♂), 13033 (partial specimen).

Locality: V-14-52, 36°29'N, 13°23'E, 1678–1698 m (AMNH 13030–13032), V-14-55, 39°09'N, 06°24.5'E, 2860 m (AMNH 13033), Mediterranean Sea.

Collector: R/V "Vema," July 14 (AMNH 13030–13032), 26 (AMNH 13033), 1958.

*Ilyarachna gurjanovae* Menzies, 1962: 160–161, fig. 48e.

Holotype: AMNH 12077 (♀).

Paratype: AMNH 12078 (1♀).

Locality: V-14-31, 36°34'S, 14°08'E, 4893 m, Lower Continental Rise, southwest of Cape Town, South Africa, Atlantic Ocean.

Collector: R/V "Vema," April 4, 1958.

Remarks: ex LGO. Menzies (1962: 160) cited

only two specimens: the "allotype" and a paratype. His "allotype" is doubtless an error for holotype and AMNH 12077 is taken to be the holotype specimen. This species is now placed in the genus *Bathybadistes* Hessler and Thistle, 1975 (Hessler and Thistle, 1975: 157).

*Ilyarachna identifrons* Menzies, 1962: 161, fig. 49a–c.

Holotype: AMNH 12089 (♀) [LOST].

Paratypes: AMNH 12090 ("20 fragments") [LOST].

Locality: V-14-31, 36°34'S, 14°08'E, 4893 m, Lower Continental Rise, southwest of Cape Town, South Africa, Atlantic Ocean.

Collector: R/V "Vema," April 4, 1958.

Remarks: ex LGO. Both the holotype and paratypes appear to have been lost during or after return from loan in 1973 (Thistle, personal commun.); neither lot could be located in AMNH. This species is now placed in the genus *Betamorpha* Hessler and Thistle, 1975 (Thistle and Hessler, 1977: 287).

*Ilyarachna multispinosa* Menzies, 1962: 160, fig. 47j–l.

Holotype: AMNH 12108 (♂ fragment).

Locality: V-14-29, 41°03'S, 07°49'E, 4961 m, southwestern flank of Schmidt-Ott Rise, southwest of Cape Town, South Africa, Atlantic Ocean.

Collector: R/V "Vema," March 30, 1958.

Remarks: ex LGO. AMNH 12108 is the holotype by monotypy. This species is now placed in the genus *Bathybadistes* Hessler and Thistle, 1975 (Hessler and Thistle, 1975: 157).

*Ilyarachna nodifronoides* Menzies, 1962: 158–159, fig. 46.

Holotype: AMNH 12102 (♂) [LOST].

Allotype: AMNH 12103 (♀) [LOST].

Locality: V-14-29, 41°03'S, 07°49'E, 4961 m, southwestern flank of Schmidt-Ott Rise, southwest of Cape Town, South Africa, Atlantic Ocean.

Collector: R/V "Vema," March 30, 1958.

Remarks: ex LGO. Both the holotype and allotype appear to have been lost during or after return from loan in 1973 (Thistle, personal commun.); neither could be located in AMNH. An additional 4♂, 13♀ paratypes are unaccounted for. This species is a synonym of *Betamorpha fusiformis* (Barnard, 1920) (Hessler and Thistle, 1975: 157).

*Ilyarachna scotia* Menzies, 1962: 162, fig. 49f, g. Holotype: AMNH 12146 (♀) [LOST].

Locality: V-15-116, 55°42.9'S, 64°21.6'W, 3824 m, Continental Rise, south of Staten Island, northwestern Scotia Sea, Atlantic Ocean.

Collector: R/V "Vema," March 15, 1959.

Remarks: ex LGO. AMNH 12146 is the holotype by monotypy and appears to have been lost during or after return from loan in 1973 (Thistle, personal commun.); it could not be located in AMNH. This species is a synonym of *Betamorphia fusiformis* (Barnard, 1920) (Hessler and Thistle, 1975: 157).

*Ilyarachna sekhari* George and Menzies, 1968: 371–373, fig. 3.

Holotype: AMNH 13034 (♂).

Locality: V-14-55, 39°09'N, 06°24.5'E, 2860 m, Mediterranean Sea.

Collector: R/V "Vema," July 26, 1958.

Remarks: AMNH 13034 is the holotype by monotypy. This species is now placed in the genus *Aspidarachna* Sars, 1899 (Hessler and Thistle, 1975: 157).

*Ilyarachna simplex* Menzies, 1962: 160, fig. 47d–i.

Holotype: AMNH 12086 (♀).

Locality: V-14-31, 36°34'S, 14°08'E, 4893 m, Lower Continental Rise, southwest of Cape Town, South Africa, Atlantic Ocean.

Collector: R/V "Vema," April 4, 1958.

Remarks: ex LGO. AMNH 12086 is the holotype by monotypy. This species is a synonym of *I. polita* Bonnier, 1896 (Thistle, 1980: 133).

*Ilyarachna spinoafricana* Menzies, 1962: 160, fig. 47b, c.

Holotype: AMNH 12127 (♂).

Allotype: AMNH 12128 (♀).

Locality: V-14-33, 34°26'S, 17°32'E, 708 m, Atlantic Ocean.

Collector: R/V "Vema," April 6, 1958.

Remarks: ex LGO. This species is a synonym of *I. affinis* Barnard, 1920 (Thistle, 1980: 117).

*Ilyarachna triangulata* Menzies, 1962: 161–162, fig. 49d, e.

Holotype: AMNH 12084 (♀).

Paratype: AMNH 12084A (1 fragment).

Locality: V-12-2, 30°14.9'S, 13°03'E, 3045 m, Upper Continental Rise, southeast of Port Nolloth, South Africa, Atlantic Ocean.

Collector: R/V "Vema," April 30, 1957.

Remarks: ex LGO. AMNH 12084 and 12084A are in the same vial.

*Ilyarachna vemae* Menzies and George, 1972: 76, fig. 50.

Holotype: AMNH 12946 (♂).

Paratype: AMNH 12947 (1♂).

Locality: V-15-69, 10°13'S, 80°05'W, 6324–6328 m, Peru-Chile Trench, off Peru, Pacific Ocean.

Collector: R/V "Vema," Dec. 9, 1958.

Remarks: None of the other material cited by

Menzies and George (1972: 76) is part of the type series. This species is now placed in the genus *Echinozoe* Sars, 1899 (Schultz, 1976b: 13).

*Ischnomesus bidens* Menzies, 1962: 115–116, fig. 18e–h.

Holotype: AMNH 12039 (♂ fragment).

Paratype: AMNH 12040 (1♂ fragment).

Locality: V-12-1A, 38°58.5'S, 41°45'W, 5041 m, northern part of Argentine Rise, southeast of Río Grande, Argentina, Atlantic Ocean.

Collector: R/V "Vema," April 6, 1957.

Remarks: ex LGO.

*Ischnomesus caribbicus* Menzies, 1962: 113, fig. 17a, b.

Holotype: AMNH 12033 (♂).

Locality: V-15-15, 10°11'N, 78°30'W, 1715 m, Atlantic Ocean.

Collector: R/V "Vema," Nov. 11, 1958.

Remarks: ex LGO. AMNH 12033 is the holotype by monotypy.

*Ischnomesus decemspinosus* Menzies, 1962: 117, fig. 19h–k.

Holotype: AMNH 12009 (♂).

Paratype: AMNH 12009A (1 fragment).

Locality: V-12-2, 30°14.9'S, 13°03'E, 3045 m, Upper Continental Rise, southeast of Port Nolloth, South Africa, Atlantic Ocean.

Collector: R/V "Vema," April 30, 1957.

Remarks: ex LGO. AMNH 12009 and 12009A are in the same vial.

*Ischnomesus elegans* Menzies, 1962: 117, fig. 19l–n.

Holotype: AMNH 12028 (♂).

Locality: V-15-130, 42°00'S, 45°01.5'W, 5302 m, southwestern flank of Argentine Rise, southeast of Bahía Blanca, Argentina, Atlantic Ocean.

Collector: R/V "Vema," April 2, 1959.

Remarks: ex LGO. AMNH 12028 is the holotype by monotypy.

*Ischnomesus magnificus* Menzies, 1962: 114–115, fig. 18d.

Holotype: AMNH 12042 (♀ fragment).

Locality: V-12-1A, 38°58.5'S, 41°45'W, 5041 m, northern part of Argentine Rise, southeast of Río Grande, Argentina, Atlantic Ocean.

Collector: R/V "Vema," April 6, 1957.

Remarks: ex LGO. AMNH 12042 is the holotype by monotypy.

*Ischnomesus multispinis* Menzies, 1962: 113, fig. 17g, h.

Holotype: AMNH 12032 (♂).

Locality: V-15-22, 09°46.3'N, 79°37.5'W, 974 m, Atlantic Ocean.

Collector: R/V "Vema," Nov. 10, 1958.

Remarks: ex LGO. AMNH 12032 is the holotype by monotypy.

*Ischnomesus paucispinus* Menzies, 1962: 116–117, fig. 19a–g.

Holotype: AMNH 12043 (♂ fragment).

Paratype: AMNH 12044 (1♂ fragment).

Locality: V-12-1A, 38°58.5'S, 41°45'W, 5041 m, northern part of Argentine Rise, southeast of Bahía Blanca, Argentina, Atlantic Ocean.

Collector: R/V "Vema," April 6, 1957.

Remarks: ex LGO. AMNH 12043 and 12044 are in the same vial.

*Ischnomesus simplissimus* Menzies, 1962: 113, fig. 17c–f.

Holotype: AMNH 12037 (♀).

Paratypes: AMNH 12038 (1♀), 12197 (8♀ fragments).

Locality: V-14-29, 41°03'S, 07°49'E, 4961 m, southwestern flank of Schmidt-Ott Rise (AMNH 12037, 12038), V-14-31, 36°34'S, 14°08'E, 4893 m, Lower Continental Rise (AMNH 12197), southwest of Cape Town, South Africa, Atlantic Ocean.

Collector: R/V "Vema," March 30 (AMNH 12037, 12038), April 4 (AMNH 12197), 1958.

Remarks: ex LGO.

*Ischnomesus wolffi* Menzies, 1962: 113–114, fig. 18a–c.

Holotype: AMNH 12036 (♂ fragment).

Paratypes: AMNH 12175 (6♂ fragments).

Locality: V-12-6, 23°00'S, 08°11'E, 4050 m, crest of Walvis Ridge Front Range, west of Walvis Bay (AMNH 12175), V-14-29, 41°03'S, 07°49'E, 4961 m, southwestern flank of Schmidt-Ott Rise, southwest of Cape Town (AMNH 12036), South Africa, Atlantic Ocean.

Collector: R/V "Vema," May 7, 1957 (AMNH 12175), March 30, 1958 (AMNH 12036).

Remarks: ex LGO.

*Jaeropsis antarctica* Menzies and Schultz, 1968: 182, figs. 32, 33.

Paratypes: AMNH 11852 (1♂, 1♀).

Locality: Sta. 1003, 62°40.5' to 62°40.9'S, 54°43.3' to 54°42.5'W, 210–220 m, northeast of Joinville Island, northwestern Weddell Sea.

Collector: R/V "Eltanin," March 15, 1964.

Remarks: The holotype ♂ was AHF type #637, now LACM 63–158.1, but it cannot be located in LACM (Wetzer et al., 1991: 9–10; G. Davis, personal commun.). Additional paratypes (Sta. 992, 1♀; Sta. 993, 3 specimens; Sta. 1002, 4 specimens; Sta. 1003, 19 specimens) are not in AMNH or LACM (Wetzer et al., 1991: 10; G. Davis, personal commun.); their repository is unknown. The genus is correctly spelled *Joeropsis* (Sivertsen and Holthuis, 1980: 97).

*Leptotrichus isthmicus* Van Name, 1926: 3–5, figs. 1–3.

Holotype: AMNH 5336 (♂).

Locality: Under a log in old-growth forest near biological station, Barro Colorado Island, Canal Zone, Panama.

Collector: W. G. Van Name, March 30–April 4, 1924.

Remarks: AMNH 5336 is the holotype by monotypy. This species is now placed in genus *Trichorhina* Budde-Lund, 1908, as *T. isthmica* (Van Name, 1936: 203).

*Ligyda platycephala* Van Name, 1925: 497–500, figs. 67–71.

Holotype: AMNH 4694 (♀).

Paratypes: AMNH 4694A (1♂), 5313 (2♀), 5314 (1♂), 5315 (2♂).

Locality: Kartabo, Bartica District, British Guiana.

Collector: NYZS Tropical Research Station.

Remarks: AMNH 4694 and 4694A are in the same vial. This species is the senior synonym of *L. muscorum* Jackson, 1927, which is the type of the subgenus *Pogonoligia* Jackson, 1927 (Van Name, 1936: 61). The genus is correctly spelled *Ligia* (Kensley and Schotte, 1989: 249).

*Livoneca guianensis* Van Name, 1925: 476–478, figs. 15–18.

Holotype: AMNH 4691 (♀).

Paratypes: AMNH 4693 (1♀), 5312 (1 immature).

Host: From gills of *Leporinus fasciatus* (Bloch, 1794) (Osteichthyes) (AMNH 4693), from gills of *Pimelodus clarias* (Bloch, 1795) (Osteichthyes) eaten by a "snakebird" (AMNH 5312).

Locality: Near Kartabo, Bartica District, British Guiana.

Collector: W. Beebe (AMNH 4691), NYZS Tropical Research Station, July 7, 1920 (AMNH 4693), June 3 (AMNH 5312), 1924.

Remarks: AMNH 5311 (1 "young") is not here considered a paratype because Van Name (1925: 478) cited it as "possibly belonging to this species, but without committing myself to that opinion." This species could be a synonym of *Vanamea symmetrica* (Van Name, 1925) (Van Name, 1940: 135; Thatcher, 1994: 288). The genus has also been spelled *Lironeca* (see Williams and Bowman, 1994: 224), but this is incorrect (ICZN Opinion 1849).

*Livoneca symmetrica* Van Name, 1925: 473–476, figs. 9–14.

Holotype: AMNH 4695 (♀).

Paratypes: AMNH 4692 (2 larvae), 4698 (1 young), 5308 (1♀ w/28 larvae), 5309 (1 young), 5310 (2♂, 2♀).

Host: On gills of *Myloplus* [= *Myleus*] *rubripennis* (Müller and Troschel, 1845) (Osteichthyes) (AMNH 4695), on scales of *Hemidoras carinatus* (Linnaeus, 1766) (Osteichthyes) (AMNH 4698), *Serrasalmus rhombeus* (Linnaeus, 1766) (Osteichthyes) (AMNH 5308), *Cichla ocellaris* Bloch and Schneider, 1801 (Osteichthyes) (AMNH 5309), *Brachyplatystoma* sp. (Osteichthyes) (AMNH 5310).

Locality: Near Kartabo, Bartica District, British Guiana.

Collector: NYZS Tropical Research Station, July 22 (AMNH 5308), Sept. 4 (AMNH 4695), 1922, March 4 (AMNH 5310), May 4 (5309), 1924.

Remarks: The genus has also been spelled *Lironeca* (see Williams and Bowman, 1994: 224), but this is incorrect (ICZN Opinion 1849). This species is the type of the genus *Vanamea* Thatcher, 1994, by monotypy (Thatcher, 1994: 288).

*Macrostylis bifurcatus* Menzies, 1962: 131, fig. 29a-e.

Holotype: AMNH 12126 (♂).

Paratype: AMNH 12268 (1♂).

Locality: V-14-28, 45°34'S, 06°02'E, 4618 m, western flank of Walvis Ridge, northwest of Meteor Seamount (AMNH 12126), V-14-29, 41°03'S, 07°49'E, 4961 m, southwestern flank of Schmidt-Ott Rise, southwest of Cape Town, South Africa (AMNH 12268), Atlantic Ocean.

Collector: R/V "Vema," March 28 (AMNH 12126), 30 (AMNH 12268), 1958.

Remarks: ex LGO.

*Macrostylis bipunctatus* Menzies, 1962: 132-133, fig. 29h-m.

Holotype: AMNH 12056 (♂).

Allotype: AMNH 12057 (♀).

Paratypes: AMNH 12057A (3 fragments), 12262 (16 specimens), 12265 (1♂), 12266 (1♀, 2 fragments), 12277 (2♀).

Locality: V-12-1, 38°58.5'S, 41°45'W, 5041 m (AMNH 12056, 12057, 12057A), V-14-28, 45°34'S, 06°02'W, 4618 m, western flank of Walvis Ridge, northwest of Meteor Seamount (AMNH 12266), V-14-29, 41°03'S, 07°49'E, 4961 m, southwestern flank of Schmidt-Ott Rise, southwest of Cape Town (AMNH 12262), V-14-31, 36°34'S, 14°08'E, 4893 m, Lower Continental Rise, southwest of Cape Town (AMNH 12265), South Africa, V-15-133, 39°55.4'S, 42°38.8'W, 3953-3964 m, north central part of Argentine Rise (AMNH 12277), Atlantic Ocean.

Collector: R/V "Vema," April 6, 1957 (AMNH 12056, 12057, 12057A), March 28 (AMNH

12266), 30 (AMNH 12262), April 4 (AMNH 12265), 1958, April 24, 1959 (AMNH 12277). Remarks: ex LGO. Menzies (1962: 133) listed only a single ♀ specimen from V-15-133 (= AMNH 12277), but there are 2 ♀ in the vial which he also acknowledged on the specimen label.

*Macrostylis caribbicus* Menzies, 1962: 131, fig. 28e-g.

Holotype: AMNH 12072 (♂).

Locality: V-15-13, 11°30'N, 75°50'W, 2875-2944 m, Continental Rise northwest off Cartagena, Colombia, Atlantic Ocean.

Collector: R/V "Vema," Nov. 8, 1958.

Remarks: ex LGO. AMNH 12072 is the holotype by monotypy.

*Macrostylis hirsuticaudis* Menzies, 1962: 131, fig. 28a-d.

Holotype: AMNH 12122 (♂).

Allotype: AMNH 12122A (♀).

Paratypes: AMNH 12123 (2♂, 2♀).

Locality: V-12-10, 05°53.5'S, 09°51.5'E, 3015 m, northern wall of Congo Submarine Canyon, Upper Continental Rise, Atlantic Ocean.

Collector: R/V "Vema," May 21, 1957.

Remarks: ex LGO. AMNH 12122 and 12122A are in the same vial.

*Macrostylis minutus* Menzies, 1962: 131-132, fig. 29f, g.

Holotype: AMNH 12059 (♀).

Paratypes: AMNH 12060 (2♀), 12202 (1♀), 12203 (10♀).

Locality: V-15-147, 21°18.7'N, 65°13.4'W, 5419-5497 m (AMNH 12203), V-15-148, 21°35'N, 67°09'W, 5162-5172 m (AMNH 12202), V-15-150, 20°21.3'N, 66°24'W, 5481-5497 m (AMNH 12059, 12060), Antilles Outer Ridge, north of Puerto Rico Trench, north of Puerto Rico, Atlantic Ocean.

Collector: R/V "Vema," June 4 (AMNH 12203), 6 (AMNH 12202), 11 (AMNH 12059, 12060), 1959.

Remarks: ex LGO.

*Macrostylis setifer* Menzies, 1962: 130-131, fig. 27f-h.

Holotype: AMNH 12058 (♂).

Locality: V-15-150, 20°21.3'N, 66°24'W, 5481-5497 m, Antilles Outer Ridge, north of Puerto Rico Trench, north of Puerto Rico, Atlantic Ocean.

Collector: R/V "Vema," June 11, 1959.

Remarks: ex LGO. AMNH 12058 is the holotype by monotypy.

*Macrostylis truncatex* Menzies, 1962: 128, fig. 27a-c.

Holotype: AMNH 12065 (♂).

Locality: V-15-162, 30°30'N, 75°55'W, 3947–3960 m, Outer Ridge, east of Blake Plateau, Atlantic Ocean.

Collector: R/V "Vema," July 8, 1959.

Remarks: ex LGO. AMNH 12065 is the holotype by monotypy.

*Macrostylis vema* Menzies, 1962: 131, fig. 28h–k.

Holotype: AMNH 12074 (♂).

Allotype: AMNH 12075 (♀).

Paratypes: AMNH 12076 (2♂, 2♀), 12204 (1♀).

Locality: V-15-145, 22°01.5'N, 66°23.5'W, 5688 m (AMNH 12204), V-15-147, 21°18.7'N, 65°13.4'W, 5419–"?" m (AMNH 12074–12076), Antilles Outer Ridge, north of Puerto Rico Trench, north of Puerto Rico, Atlantic Ocean.

Collector: R/V "Vema," June 1 (AMNH 12204), 4 (AMNH 12074–12076), 1959.

Remarks: ex LGO.

*Mesosignum admirandum* Menzies and Frankenberg, 1968: 122, fig. 8.

Holotype: AMNH 12497 (♂).

Allotype: AMNH 12498 (♀).

Paratypes: AMNH 12499 (2♂), 12500 (3♂, 1 juvenile).

Locality: V-15-60, 06°21'N, 85°17'W, 1016–1892 m, off Costa Rica (AMNH 12497–12499), V-15-62, 01°30'S, 82°19'W, 1363–1369 m, off Ecuador (AMNH 12500), Pacific Ocean.

Collector: R/V "Vema," Nov. 30 (AMNH 12497–12499), Dec. 3 (AMNH 12500), 1958.

Remarks: An additional paratype is R/V "Eltanin" USC-30 (Menzies and Frankenberg, 1968: 122) whose current repository is unknown.

*Mesosignum ansatum* Menzies and Frankenberg, 1968: 122–125, fig. 9.

Holotype: AMNH 12501 (♀).

Paratype: AMNH 12502 (1♀).

Locality: V-15-55, 12°45'N, 88°38'W, 3777–3950 m, off Nicaragua, Pacific Ocean.

Collector: R/V "Vema," Nov. 24, 1958.

*Mesosignum asperum* Menzies and Frankenberg, 1968: 125, fig. 12.

Holotype: AMNH 12494 (♂).

Paratypes: AMNH 12495 (1♂), 12496 (1 fragment).

Locality: V-15-46, 09°22'N, 89°33'W, 3517–3528 m (AMNH 12495), V-15-48, 10°07'N, 89°50'W, 3659 m (AMNH 12494), off Costa Rica, V-15-55, 12°45'N, 88°38'W, 3777–3950 m (AMNH 12496), off Nicaragua, Pacific Ocean.

Collector: R/V "Vema," Nov. 20 (AMNH

12495), 21 (AMNH 12494), 24 (AMNH 12496), 1958.

*Mesosignum kohleri* Menzies, 1962: 184–185, fig. 64a–g.

Holotype: AMNH 12046 (♂).

Allotype: AMNH 12047 (♀).

Paratypes: AMNH 12048 (1♂, 3♀), 12191 (3♂, 2♀, 2 juv., 1 fragment), 12192 (3♂), 12194 (1♀), 12200 (2♂).

Locality: V-15-9, 14°05'N, 75°25'W, 4077 m (AMNH 12191), V-15-10, 14°05'N, 75°25'W, 4077 m (AMNH 12194), V-15-11, 14°05'N, 75°25'W, 4283 m (AMNH 12046–12048), central part of Colombia Abyssal Plain, V-15-12, 11°30'N, 75°50'W, 2868–2875 m (AMNH 12200), V-15-13, 11°30'N, 75°50'W, 2875–2944 m (AMNH 12192), Continental Rise, northwest off Cartagena, Colombia, Atlantic Ocean.

Collector: R/V "Vema," Nov. 7 (AMNH 12046–12048, 12191, 12194), 8 (AMNH 12192, 12200), 1958.

Remarks: ex LGO. This species is the type of the genus *Mesosignum* Menzies, 1962, by original designation (Menzies, 1962: 184).

*Mesosignum macrum* Menzies and Frankenberg, 1968: 125, fig. 11.

Holotype: AMNH 12492 (♀).

Paratype: AMNH 12493 (1♀).

Locality: V-15-61, 04°15'N, 85°06'W, 3254–3260 m, off Costa Rica, Pacific Ocean.

Collector: R/V "Vema," Dec. 1, 1958.

*Mesosignum magnadens* Menzies and Frankenberg, 1968: 117–120, fig. 6.

Holotype: AMNH 12491 (♀).

Locality: V-15-5, 20°30'N, 73°16'W, 4798 m, near Windward Passage, Caribbean Sea, Atlantic Ocean.

Collector: R/V "Vema," Nov. 4, 1958.

Remarks: AMNH 12491 is the holotype by monotypy.

*Mesosignum multidens* Menzies and Frankenberg, 1968: 117, figs. 2–4.

Holotype: AMNH 12503 (♂).

Allotype: AMNH 12504 (♀).

Paratypes: AMNH 12505 (2♂, 22♀), 12506 (4♂), 12507 (1♀ fragment), 12508 (2♀, 1 juv., 1 fragment), 12509 (2♀, 1 juv.), 12510 (2♂, 1♀).

Locality: V-15-64, 06°08'S, 82°41'W, 4050–4052 m (AMNH 12508), V-15-65, 07°35'S, 81°24'W, 5825–5841 m (AMNH 12507), V-15-69, 10°13'S, 80°05'W, 6324–6328 m (AMNH 12503–12505), V-15-70, 10°02'S, 80°21'W, 5490–5666 m (AMNH 12509), V-15-71, 10°07'S, 80°57'W, 4661–4723 m (AMNH 12506), V-15-74, 07°32'S, 81°26'W, 5759–

5760 m (AMNH 12510), Peru-Chile Trench, off Peru, Pacific Ocean.

Collector: R/V "Vema," Dec. 5 (AMNH 12508), 6 (AMNH 12507), 9 (AMNH 12503–12505), 10 (AMNH 12509), 11 (AMNH 12506), 19 (AMNH 12510), 1958.

Remarks: AMNH 12505 contains more specimens than the 1♂, 20♀ listed by Menzies and Frankenberg (1968: 117); Menzies' specimen label agrees with the higher total. The current repository of additional paratypes (R/V "Eltanin" USC-38, USC-40, USC-43) is unknown.

*Mesosignum usheri* Menzies, 1962: 185, fig. 64h–j.

Holotype: AMNH 12049 (♂).

Allotype: AMNH 12050 (1♀).

Paratype: AMNH 12193 (1♀).

Locality: V-15-13, 11°30'N, 75°50'W, 2875–2944 m, Continental Rise, northwest off Cartagena, Colombia, Atlantic Ocean.

Collector: R/V "Vema," Nov. 8, 1958.

Remarks: ex LGO.

*Munna (Munna) argentinae* Menzies, 1962: 173–174, fig. 56c–e.

Holotype: AMNH 12135 (♀).

Locality: V-15-117, 55°31.6'S, 64°07.5'W, 3845 m, Continental Rise, south of Staten Island, northwestern Scotia Sea, Atlantic Ocean.

Collector: R/V "Vema," March 15, 1959.

Remarks: ex LGO. AMNH 12135 is the holotype by monotypy.

*Nannoniscoides hirsutus* Menzies, 1962: 133, fig. 30.

Holotype: AMNH 12064 (♂).

Locality: V-12-1A, 38°58.5'S, 41°45'W, 5041 m, northern part of Argentine Rise, southeast of Río Grande, Argentina, Atlantic Ocean.

Collector: R/V "Vema," April 6, 1957.

Remarks: ex LGO. AMNH 12064 is the holotype by monotypy. This species is now placed in the genus *Hebefustis* Siebenaller and Hessler, 1977 (Siebenaller and Hessler, 1977: 30).

*Nannoniscus camayae* Menzies, 1962: 137, fig. 32a–c.

Holotype: AMNH 12358 (♀).

Locality: V-15-15, 10°11'N, 78°30'W, 1715 m, Atlantic Ocean.

Collector: R/V "Vema," Nov. 9, 1958.

Remarks: ex LGO. AMNH 12358 is the holotype by monotypy.

*Nannoniscus laevis* Menzies, 1962: 138, fig. 32d–g.

Holotype: AMNH 12068 (♀).

Paratypes: AMNH 12069 (3♀).

Locality: V-14-31, 36°34'S, 14°08'E, 4893 m,

Lower Continental Rise, southwest of Cape Town, South Africa, Atlantic Ocean.

Collector: R/V "Vema," April 4, 1958.

Remarks: ex LGO.

*Nannoniscus primitivus* Menzies, 1962: 138, fig. 32h–k.

Holotype: AMNH 12111 (♂).

Locality: V-15-12, 11°30'N, 75°50'W, 2868–2875 m, Continental Rise, northwest off Cartagena, Colombia, Atlantic Ocean.

Collector: R/V "Vema," Nov. 8, 1958.

Remarks: ex LGO. AMNH 12111 is the holotype by monotypy. This species is now placed in the genus *Hebefustis* Siebenaller and Hessler, 1977 (Siebenaller and Hessler, 1977: 30).

*Notoxenoides abyssii* Menzies, 1962: 177, fig. 58.

Holotype: AMNH 12129 (♂).

Allotype: AMNH 12129A (♀).

Paratypes: AMNH 12130 (2♂, 1♀).

Locality: V-14-32, 34°35'S, 17°31'E, 1861 m, Atlantic Ocean.

Collector: R/V "Vema," April 6, 1958.

Remarks: ex LGO. This species is the type of the genus *Notoxenoides* Menzies, 1962, by original designation (Menzies, 1962: 176).

*Notoxenoides vema* Menzies, 1962: 177, fig. 59.

Holotype: AMNH 12115 (♀).

Locality: V-12-6, 23°00'S, 08°11'E, 4050 m, crest of Walvis Ridge Front Range, west of Walvis Bay, Namibia, Atlantic Ocean.

Collector: R/V "Vema," May 7, 1957.

Remarks: ex LGO. AMNH 12115 is the holotype by monotypy.

*Paracerceis edithae* Boone, 1930: 51–53, fig. 10.

Holotype: AMNH 12398 (♂).

Paratypes: AMNH 12398 (9♂).

Locality: Gonave Bay, Haiti, Atlantic Ocean.

Collector: NYZS, Feb. 2 – May 10, 1927.

Remarks: ex NYZS 27240. AMNH 12398 and 12398A are in the same vial. The holotype is the specimen illustrated by Boone (1930) but, because of her poor labeling of both the illustration and the specimen, the holotype cannot be separated from the paratypes with any certainty. Although Boone (1930: 51) stated that the type series included "both sexes," all of the specimens are ♂; the female of this species being first described and illustrated by Glynn (1972: 144–145, fig. 1b).

*Parasymmerus annamaryae* Brusca and Wallerstein, 1979: 256–260, figs. 1, 2.

Paratypes: AMNH 16298 (1♀), 16299 (1♂).

Locality: Approximately 1 m below high tide mark in algae ("*Choonospora*" [sic] [= *Chnoospora*] *minima* (Hering, 1841) and *Der-*

- monema frapperi* (Montagne and Millardet, 1862) [= *D. virens* (J. Agardh, 1847)], dead barnacle shells (*Tetracita* sp.) and mussel beds, northern shore of bay, Bahía Audiencia, Manzanillo, Colima, Mexico, Pacific Ocean.  
Collector: A. M. Mackey, R. C. Brusca, B. Wallerstein, and P. Pepe, Aug. 3–4, 1977.  
Remarks: The holotype ♂ was AHF type #765 and the allotype ♀ was AHF type #765a, now LACM 76–565.2 and 76–565.3, respectively (Wetzer et al., 1991: 41). Additional paratypes were in AHF, now LACM 76–565.4 (22 specimens) and 46–11.1 (1♀) (Wetzer et al., 1991: 41–42), USNM 213125 (1♂, 1♀), and CMN (= NMC) 1986–1148 (1♂, 1♀). This species is the type of the genus *Parasymerus* Brusca and Wallerstein, 1979, by monotypy (Brusca and Wallerstein, 1979: 254).
- Pentoniscus exilis* Van Name, 1925: 500–501, figs. 73–77.  
Holotype: AMNH 5332 (♀).  
Locality: Kartabo, Bartica District, British Guiana.  
Collector: NYZS Tropical Research Station.  
Remarks: AMNH 5332 is the holotype by monotypy. This species is now placed in *Philoscia* Latreille, 1804 (Schultz, 1968: 16–17).
- Philoscia avrilensis* Van Name, 1940: 114–115, fig. 5, 6.  
Holotype: AMNH 8101 (♂).  
Locality: 6000 ft, Bois d'Avril, Haiti.  
Collector: [J.?] Bird and [?] Winkhans, March 7, 1935.  
Remarks: AMNH 8101 is the holotype by monotypy. This species was placed in the genus *Phalloniscus* Budde-Lund, 1908 by Lemos de Castro (1958b: 5), but was tentatively placed in the genus *Novamundoniscus* Schultz, 1995, by Schultz (1995: 406).
- Philoscia bonita* Schultz, 1964: 156–159, figs. 1–27.  
Paratypes: AMNH 12218 (4♀).  
Locality: West Hollywood, Florida, United States.  
Collector: G. A. Schultz, Feb. 27, 1961.  
Remarks: The holotype ♂ is USNM 107553 and the allotype ♀ is USNM 107554. The repository of the additional 102+ paratype specimens is unknown; they are not in FSCA (Edwards, personal commun.). This species is a synonym of *Atlantoscia floridana* (Van Name, 1940) (Taiti and Ferrara, 1991: 902).
- Philoscia culebroides* Van Name, 1924: 193–194, figs. 11, 12.  
Holotype: AMNH 4838 (♂).  
Locality: On underside of slab of lava, Tower Island, Galápagos Islands, Ecuador.  
Collector: Harrison Williams Expedition, April 28, 1923.  
Remarks: AMNH 4838 is the holotype by monotypy. This species is now placed in the genus *Nesophiloscia* Vandel, 1968 (Vandel, 1968: 113).
- Philoscia demerarae* Van Name, 1925: 496–497, figs. 64–66.  
Holotype: AMNH 5329 (♀).  
Locality: Sifting in jungle, Kartabo, Bartica District, British Guiana.  
Collector: NYZS Tropical Research Station.  
Remarks: AMNH 5329 is the holotype by monotypy.
- Philoscia floridana* Van Name, 1940: 113–114, fig. 4.  
Holotype: AMNH 9023 (♂).  
Paratype: AMNH 9024 (1♀).  
Locality: Winter Park, Florida, United States.  
Collector: F. E. Lutz, Feb. 1939.  
Remarks: This species is the type of both the genus *Osceloscia* Schultz and Johnson, 1984, by monotypy (Schultz and Johnson, 1984: 161) and its senior synonym *Atlantoscia* Ferrara and Taiti, 1981, by monotypy, as the senior synonym of the type species *A. alceui* Ferrara and Taiti, 1981 (Taiti and Ferrara, 1991: 902).
- Philoscia gatunensis* Van Name, 1926: 12–14, figs. 21, 22.  
Holotype: AMNH 5339 (♀).  
Paratypes: AMNH 5340 (3♂, 5♀).  
Locality: From sifting dead leaves and mold in old-growth forest near biological station, Barro Colorado Island, Canal Zone, Panama.  
Collector: W. G. Van Name, March 30–April 4, 1924.  
Remarks: This species was placed in the genus *Chaetophiloscia* Verhoeff, 1908, by Lemos de Castro (1967: 321), but this might not be the appropriate genus (Leistikow, personal commun.).
- Philoscia (Philoscia?) geiseri* Van Name, 1936: 117–118, fig. 53.  
Holotype: AMNH 5954 (♀).  
Paratype: AMNH 5954A (1♀).  
Locality: Dallas(?), Texas, United States.  
Collector: S. W. Geiser, June 8, 1928.  
Remarks: Both the holotype and paratype were unavailable for examination at the time of this writing.
- Philoscia inquilina* Van Name, 1936: 147–149, fig. 73.  
Holotype: AMNH 6507 (♂).  
Paratypes: AMNH 6507A (2♂, 2♀), 6569 (10♀).

Locality: From underground ant nest, Bartica (AMNH 6507, 6507A, 6569), British Guiana.

Collector: H. Lang, Oct. 1922.

Remarks: AMNH 6569 includes an additional 4 slides of mouthparts and appendages from a ♀ specimen in that lot. There are 2 more specimens in the AMNH type series than were cited by Van Name (1936: 149). AMNH 6566 (2♀, not 1 as cited) is not here considered to be paratype material because Van Name (1936: 149) said they only appeared "to be of this species also."

*Philoscia kartaboana* Van Name, 1936: 143–145, figs. 69–71.

Holotype: AMNH 6510 (♂).

Paratypes: AMNH 5330 (1♀), 5331 (2♀), 6547 (1 young), 6555 (1♂, 1♀), 6557 (6♂, 5♀), 6565 (1♂, 6♀).

Locality: In underground ant nests, Kamakusa (AMNH 6510, 6547, 6555, 6557, 6565), Kartabo, Bartica District (AMNH 5330, 5331), British Guiana.

Collector: W. Beebe (AMNH 5330, 5331), H. Lang., Oct. 1922 (AMNH 6510, 6547, 6557), Jan. 1923 (AMNH 6555).

Remarks: AMNH 6557 includes an additional 8 slides of mouthparts and appendages from a ♂ specimen in that lot. Because Van Name (1936: 145) stated that the Bartica specimens (AMNH 6537, 6556, 6561, 6577) only "appear to belong to this species," they are not here considered paratypes.

*Philoscia langi* Van Name, 1936: 164–166, figs. 83, 84.

Holotype: AMNH 6512 (♀).

Paratypes: AMNH 6562 (6♂, 1♀), 6570 (6♂, 13♀).

Locality: Kamakusa, British Guiana.

Collector: H. Lang, Oct. 25, 1922 (AMNH 6570), Jan. 1923 (AMNH 6512, 6562).

Remarks: Four additional paratypes (ex AMNH 6570) are MNRJ 8579 (P. Young, personal commun.) with the total number of specimens cited as "about 35" (Van Name, 1936: 165). This species is tentatively placed in the genus *Novamundoniscus* Schultz, 1995 (Schultz, 1995: 406).

*Philoscia (Ischioscia) mineri* Van Name, 1936: 125–126, fig. 58.

Holotype: AMNH 6509 (♂).

Paratypes: AMNH 6509A (1♀), 6529 (4♂, 4♀, 1 partial specimen), 6558 (5♂, 21♀), 6563 (1♂, 4♀).

Locality: Long Ditton near Roseau (AMNH 6509, 6509A, 6529, 6563), Laudat (AMNH 6558), Dominica.

Collector: F. E. Lutz, June 1911.

Remarks: AMNH 6509, 6509A are in the same vial. AMNH 6558 includes an additional 6 slides of mouthparts and appendages from a ♂ specimen in that lot. Two additional paratypes (ex AMNH 6529) were given to A. Lemos de Castro for deposition in MNRJ, but could not be located in that institution (P. Young, personal commun.). Van Name (1936: 126) cited "over 30 adult specimens . . . [also] some additional very immature specimens." The former subgenus *Ischioscia* Verhoeff, 1928, is now accorded generic status (Leistikow, personal commun.).

*Philoscia moneaguensis* Van Name, 1936: 152–153, fig. 76.

Holotype: AMNH 6511 (♀).

Locality: Moneague, Jamaica.

Collector: Unknown.

Remarks: AMNH 6511 is the holotype by monotypy.

*Philoscia nomae* Van Name, 1924: 196–197, figs. 16–18.

Holotype: AMNH 4835 (♀).

Locality: Under lava, Tower Island, Galápagos Islands, Ecuador.

Collector: Harrison Williams Expedition, April 28, 1923.

Remarks: AMNH 4835 is the holotype by monotypy. This species is a synonym of *Nesophiloscia culebroides* (Van Name, 1924) (Vandel, 1968: 115).

*Philoscia omissa* Van Name, 1936: 140–143, figs. 67, 68.

Holotype: AMNH 5327 (♀).

Paratypes: AMNH 5326 (1♂, 1♀), 5328 (2♀), 6559 (1♂, 1♀), 6560 (6♂, 5♀), 6578 (1♂, 3♀), 6584 (1♀), 6586 (2♂, 2♀), 6592 (1♂, 1♀), 6593 (2♀), 6599 (4♀), 6600 (3♀).

Locality: Kartabo, Bartica District (AMNH 5326–5328), Kurupung (AMNH 6559), Kamakusa (AMNH 6560, 6578), Tukeit (AMNH 6592), Dunoon (AMNH 6600), British Guiana (AMNH 6584, 6586, 6593, 6599).

Collector: W. Beebe (AMNH 5326–5328), H. Lang, Dec. 1922 (AMNH 6559, 6586, 6593), Jan. 1923 (AMNH 6560, 6578, 6584, 6599), F. E. Lutz, July 16, 1911 (AMNH 6592), A. S. Pearse (AMNH 6600).

Remarks: AMNH 6600 ex UMMZ. This species is the type of the genus *Parischioscia* Lemos de Castro, 1967, by monotypy (Lemos de Castro, 1967: 319).

*Philoscia paraguayana* Van Name, 1936: 139–140, fig. 66.

Holotype: AMNH 6508 (♀).



Paratypes: AMNH 6508A (1♂, 1♀).

Locality: "Paraguay."

Collector: K. Fiebrig, 1909.

Remarks: AMNH 6508 and 6508A are in the same vial. This species is now placed in the genus *Balloniscus* Budde-Lund, 1908, as *B. paraguayanus* (Lemos de Castro, 1958b: 5).

*Philoscia pearsei* Van Name, 1936: 166–167, fig. 85.

Paratypes: AMNH 6564 (3♀).

Locality: Near Dunoon, British Guiana.

Collector: A. S. Pearse.

Remarks: The holotype and additional paratypes were UMMZ 51059 (9 specimens) and 51060 (19 specimens), now USNM 236473 and 236474, respectively. Although Van Name (1936: 167) indicated that one specimen was the "type," no specimen is so segregated or labeled in either USNM lot. Because all 31 type specimens are accounted for (as per Pearse, 1917: 7), it appears unlikely that the holotype specimen can ever be recognized as such. This species is tentatively placed in the genus *Novamundoniscus* Schultz, 1995 (Schultz, 1995: 406).

*Philoscia roraimae* Van Name, 1936: 145–147, fig. 72.

Holotype: AMNH 6506 (♀).

Paratypes: AMNH 6506A (1♂), 6535 (8♀).

Locality: Rondon Camp, 6900 ft, southwest of the plateau, ¼ mi from base of cliffs, Mt. Roraima (AMNH 6506, 6506A, 6535), Venezuela.

Collector: G.H.H. Tate, Dec. 1927.

Remarks: AMNH 6535 includes an additional 5 slides of mouthparts and appendages from a ♀ specimen in that lot. AMNH 7139 (2 young) cited by Van Name (1936: 147) as "perhaps also to be assigned to this species" are not here considered paratypes. One specimen (ex AMNH 6535) is MNRJ 8580 (P. Young, personal commun.), with the location of an additional paratype from Mt. Roraima unknown.

*Philoscia williamsi* Van Name, 1924: 194–195, figs. 13–15.

Lectotype: AMNH 4837 (♀ with young).

Paralectotypes: AMNH 4837 (1♂, 1♀).

Locality: Under lava blocks, Tower Island, Galápagos Islands, Ecuador.

Collector: NYZS, April 18, 1923.

Remarks: The specimen here selected as lectotype was labeled as "type" by Van Name on the specimen label. This species is a synonym of *Nesophiloscia culebroides* (Van Name, 1924) (Vandel, 1968: 115).

*Pleurocrypta langi* Van Name, 1920: 67–69, figs. 20–22.

Holotype: AMNH 3246 (♀) [LOST].

Host: In branchial chamber of *Upogebia furcata* (Aurivillius, 1898) (Malacostraca).

Locality: Banana, 06°S, 12°20'E, Belgian Congo [= Zaire = Democratic Republic of the Congo].

Collector: H. Lang and J. Chapin, July 1915.

Remarks: AMNH 3246 is the holotype by monotypy but has been lost along with the host (Bourdon, letter on file in Dept. Invertebrates, AMNH). There are two specimens (AMNH 16760, 16761), both from the same host species, with identical locality and collection data as the lost holotype, either of which would be a good candidate for future neotype designation, should the need arise. The holotype was from the same host as one of the types of *Pseudione chapini* Van Name, 1920 (see entry for that species in the present paper).

*Porcellio gertschi* Van Name, 1942: 309–310, fig. 13.

Holotype: AMNH 9554 (♂).

Paratype: AMNH 9954A (1♀).

Locality: Beaten from plants, 100 ft, Valles at El Bañito, San Luis Potosi, Mexico.

Collector: H. Hoogstraal, June 26, 1940.

Remarks: AMNH 9554 and 9554A are in the same vial. This species is a synonym of *Agabiformius lentus* (Budde-Lund, 1885) (Schultz, 1984: 315).

*Porcellionides bermudezi* Boone, 1934: 572–574, fig. 3.

Holotype: AMNH 6602 (♀).

Locality: Rincon de Guanelo, Cuba.

Collector: C. G. Aguayo, July 5, 1931.

Remarks: AMNH 6602 is the holotype by monotypy. This species could be a synonym of *P. pruinosis* (Brandt, 1833) (Van Name, 1936: 252), but was considered valid by Vandel (1981: 69), who placed it in the genus *Metoponorthus* Budde-Lund, 1885, a synonym of *Porcellionides* Miers, 1877.

*Porcellionides davisii* Mulaik and Mulaik, 1943: 7–8, figs. 21–27.

Paratypes: AMNH 17525 (3♂, 8♀).

Locality: Spring Branch, Comal Co., Texas, United States.

Collector: S. and D. Mulaik, July 14, 1941.

Remarks: ex University of Utah via AMNH Dept. Entomology. The holotype, allotype, and numerous paratypes are not in the University of Utah Department of Biology (Edmunds, personal commun.), nor are they in the Utah Museum of Natural History (Rickart, personal commun.); they are presumed lost. This species is

a synonym of *Agabiformius lentus* (Budde-Lund, 1885) (Schultz, 1984: 315).

*Porcellionides habanensis* Van Name, 1936: 244–245, fig. 136.

Holotype: AMNH 6524 (♀).

Paratypes: AMNH 6524A (2♂).

Locality: University Hill, Havana, Cuba.

Collector: F. E. Lutz, Nov. 18, 1911.

Remarks: AMNH 6524 and 6524A are in the same vial. The AMNH file card indicates collection by G. von Moser, Nov. 5–6, 1915, but this is probably incorrect.

*Porcellionides mulaiki* Van Name, 1936: 522–523.

Holotype: AMNH 7214 (♀).

Paratypes: AMNH 7024 (1♂), 7214A (1♂), 7215 (1♂, 8♀).

Locality: Edinburgh, Hidalgo Co. (AMNH 7024), Bird Island, Cameron Co. (AMNH 7214, 7214A, 7215), Texas, United States.

Collector: S. Mulaik, Sept. – Oct. 1934 (AMNH 7024), May 19, 1935 (AMNH 7214, 7214A, 7215).

Remarks: AMNH 7214 and 7214A are in the same vial. Only antennae have been illustrated for this species (Van Name, 1940: fig. 30B).

*Protrichoniscus bridgesi* Van Name, 1942: 302–304, figs. 4, 5.

Holotype: AMNH 9521 (♀).

Paratypes: AMNH 9521A (2♂), 9519 (2♂, 2♀), 9520 (12 damaged specimens).

Locality: "Cave No. 1," Pujal, San Luis Potosi, Mexico.

Collector: W. Bridges, March 16, 1940.

Remarks: AMNH 9521 and 9521A are in the same vial. This species is now placed in the genus *Brackenridgia* Ulrich, 1902 (Reddell and Mitchell, 1971: 143).

*Pseudarmadillo buscki* Boone, 1934: 582–585, fig. 7.

Holotype: AMNH 6615 (♂).

Paratype: AMNH 6615A (1 specimen) [NEVER RECEIVED].

Locality: Mercedes Valley, Caenito Province, Cuba.

Collector: D. A. Welch, Aug. 1928.

Remarks: Despite the information given by Boone (1934: 585), only the holotype is present in the AMNH collections and the file card for this lot does not indicate that the paratype was ever deposited.

*Pseudarmadillo welchi* Boone, 1934: 577–580, figs. 5, 8d–f.

Holotype: AMNH 6623 (♀).

Paratypes: AMNH 6611 (1♂), 6616 (1♂, 3♀), 6617 (1♂), 6621 (3♂), 6622 (1♂, 2♀).

Locality: Marti, Camaguary Province (AMNH 6623), San Antonio de los Baños, Havana Province (AMNH 6611), Sierra de Caraballo, Santa Clara Province (AMNH 6616), Media, Caenito Province (AMNH 6617, 6622), Sierra de Anafe (AMNH 6621), Cuba.

Collector: V. Rodriguez (AMNH 6623), P. J. Bermudez (AMNH 6611), Sept. 23, 1931 (AMNH 6616), D. A. Welch, Aug. 19, 1928 (AMNH 6617, 6622), P. J. Bermudez, and C. G. Aguayo (AMNH 6621).

Remarks: Two paratypes (ex AMNH 6621) are MNRJ 8581 (P. Young, personal commun.) with additional paratypes in FPMNH and (formerly) the Boone Collection (current repository unknown) (Boone, 1934: 579).

*Pseudione chapini* Van Name, 1920: 69–72, figs. 23–26.

Holotype: AMNH 3247 (♀ with 3 host specimens).

Paratypes: AMNH 3247A (1♂, 1♀).

Host: In branchial chambers of *Upogebia furcata* (Aurivillius, 1898) (Malacostraca).

Locality: Banana, 6°S, 12°20'E, Belgian Congo [= Zaire = Democratic Republic of the Congo].

Collector: H. Lang and J. Chapin, July 1915.

Remarks: One specimen came from the same host as the type of *Pleurocrypta langi* Van Name, 1920 (see entry for that species in the present paper). This species is now placed in the genus *Progebiophilus* Codreanu and Codreanu, 1963 (Salazar-Vallejo and Leija-Tristán, 1989: 429).

*Rhyscotus latus* Van Name, 1924: 198–201, figs. 20–22.

Holotype: AMNH 4839 (♀).

Paratypes: AMNH 4827 (2♀), 4828 (1♀), 4829 (3♀), 4830 (3♀), 4831 (12♀).

Locality: Sifted from dead leaves, South Seymour (AMNH 4827, 4831), under lava, Tower Island (AMNH 4828–4830, 4839), Galápagos Islands, Ecuador.

Collector: Harrison Williams Expedition, April 22 (AMNH 4827, 4831), 27 (AMNH 4839), 28 (AMNH 4828), 29 (AMNH 4829, 4830), 1923.

Remarks: All of the specimens appear to be ♀ (see Van Name, 1924: 200). Two additional paratypes (ex AMNH 4831) are MNRJ 8582 (P. Young, personal commun.). This species is a synonym of *Rhyscotoides parallelus* (Budde-Lund, 1893) (Vandel, 1968: 51).

*Scleropactes tatei* Van Name, 1936: 288–289, figs. 166, 167.

Holotype: AMNH 6516 (♀).

Paratype: AMNH 6530 (1♀).

Locality: Takinon Mountain, 13000 ft, Naupon, Ecuador.

Collector: G. H. Tate, Dec. 1922.

Remarks: This species could be a synonym of *S. concinnus* Budde-Lund, 1885 (Vandel, 1968: 133).

*Scleropactes zeteki* Van Name, 1926: 6–9, figs. 6–13.

Holotype: AMNH 5348 (♀).

Paratypes: AMNH 5343 (2♂, 1♀), 5344 (3♀), 5345 (1♀), 5346 (1♂, 1♀), 5347 (4♂, 5♀).

Locality: Near lake shore at altitudes over 200 ft, Barro Colorado Island, Canal Zone, Panama.

Collector: W. G. Van Name, March 29 (AMNH 5344), March 31 (AMNH 5346), March 30–April 4 (AMNH 5345, 5347, 5348), April 10 (AMNH 5343), 1924.

*Serolis (Serolis) macdonnellae* Menzies, 1962: 188–189, fig. 66.

Holotype: AMNH 12131 (♀).

Locality: V-14-25, 56°43'S, 27°41'W, 2747 m, western side of South Sandwich Island arc, between Visokoi and Leskov Islands, Atlantic Ocean.

Collector: R/V "Vema," March 9, 1958.

Remarks: ex LGO. AMNH 12131 is the holotype by monotypy. This species was placed in the former genus *Acutiserolis* Brandt, 1988 (Brandt, 1988: 21), now downgraded to a sub-genus of *Serolis* Leach, 1818 (Wägele, 1994: 53).

*Serolis (Serolis) margaretae* Menzies, 1962: 187–188, fig. 65b.

Holotype: AMNH 12136 (♀).

Paratypes: AMNH 12137 (3♀).

Locality: V-15-116, 55°42.9'S, 64°21.6'W, 3824 m, Continental Rise, south of Staten Island, northwestern Scotia Sea, Atlantic Ocean.

Collector: R/V "Vema," March 15, 1959.

Remarks: ex LGO. This species is now placed in the former genus *Acutiserolis* Brandt, 1988 (Brandt, 1988: 21), now downgraded to a sub-genus of *Serolis* Leach, 1818 (Wägele, 1994: 53).

*Serolis (Serolis) maryannae* Menzies, 1962: 189, fig. 68.

Holotype: AMNH 12143 (♀).

Locality: V-15-117, 55°31.6'S, 64°07.5'W, 3845 m, Continental Rise, south of Staten Island, northwestern Scotia Sea, Atlantic Ocean.

Collector: R/V "Vema," March 15, 1959.

Remarks: ex LGO. AMNH 12143 is the holotype by monotypy. This species is now placed in the former genus *Acutiserolis* Brandt, 1988 (Brandt, 1988: 21), now downgraded to a sub-

genus of *Serolis* Leach, 1818 (Wägele, 1994: 53).

*Serolis (Serolis) vemae* Menzies, 1962: 189, fig. 67.

Holotype: AMNH 12035 (♂).

Paratype: AMNH 12267 (1♀).

Locality: V-12-1A, 38°58.5'S, 41°45'W, 5041 m, northern part of Argentine Rise, southeast of Río Grande, Argentina (AMNH 12035), V-14-28, 45°34'S, 06°02'E, 4588 m, western flank of Walvis Ridge, northwest of Meteor Seamount (AMNH 12267), Atlantic Ocean.

Collector: R/V "Vema," April 6, 1957 (AMNH 12035), March 28, 1958 (AMNH 12267).

Remarks: ex LGO. This species is the type of the genus *Atlantoserolis* Wägele, 1994 (non Cals, 1982; a nomen nudum), by original designation (Wägele, 1994: 9).

*Sphaeroniscus bonitanus* Van Name, 1942: 312–313, fig. 16a, b.

Holotype: AMNH 9529 (♀).

Paratypes: AMNH 9526 (1♂, 5♀), 9526A (slide).

Locality: Palo Bonito near San Estéban, Edo Carabobo, Venezuela.

Collector: G. Vivas-Berthier, Sept. 27, 1937.

Remarks: AMNH 9526A is the appendages of the ♂ specimen from AMNH 9526. Two additional paratypes (ex AMNH 9526) are MNRJ 3310 (P. Young, personal commun.).

*Sphaeroniscus guianensis* Van Name, 1936: 297–300, figs. 174, 175, 176A.

Holotype: AMNH 6527 (♀).

Paratypes: AMNH 3561 (1♀, 1 damaged specimen), 3562 (1♂, 1♀, 1 partial specimen), 3562A (slide), 6576 (1♀).

Locality: Laudat, Dominica (AMNH 3561), Kaieteur (AMNH 3562, 3562A), Tumatumati (AMNH 6527), Tacoba (AMNH 6576), British Guiana.

Collector: F. E. Lutz, Aug. 6 (AMNH 3561), 11 (AMNH 3562, 3562A), 1911, L. E. Miller, Aug. 1912 (AMNH 6527), H. Lang, Oct. 10, 1922 (AMNH 6576).

Remarks: AMNH 3562A is a slide mount of pleopods 1 and 2 of the ♂ specimen from AMNH 3562.

*Sphaeroniscus tukeitanus* Van Name, 1936: 300–301, fig. 176b, c.

Holotype: AMNH 3542 (♀).

Paratypes: AMNH 1815 (1♀), 3542A (1♂), 3542B (slide).

Locality: Kaieteur (AMNH 1815), Tukeit (AMNH 3542, 3542A, 3542B), British Guiana.

Collector: F. E. Lutz, July 16 (AMNH 3542, 3542A, 3542B), Aug. 4, 1911 (AMNH 1815).

Remarks: AMNH 3542, 3542A are in the same

vial. AMNH 3542B is a slide of pleopods 1 and 2 from AMNH 3542A.

*Spinianirella walfishensis* Menzies, 1962: 171, fig. 55.

Holotype: AMNH 12117 (♀).

Paratypes: AMNH 12117A (1♀), 12260 (1♀).

Locality: V-12-4, 25°33'S, 12°27'E, 2972 m, Upper Continental Rise, off Walvis Bay, Namibia (AMNH 12117), V-14-32, 34°35'S, 17°31'E, 1861 m (AMNH 12260), Atlantic Ocean.

Collector: R/V "Vema," May 3, 1957 (AMNH 12117), April 6, 1958 (AMNH 12260).

Remarks: ex LGO. This species is the type of the genus *Spinianirella* Menzies, 1962, by monotypy (Menzies, 1962: 170). It was placed in the genus *Dactylostylis* Richardson, 1911, by Hessler (1968: 145), but not by Kensley and Heard (1985: 686).

*Stenetrium inflectofrons* Schultz, 1982: 46–50, figs. 20–22.

Holotype: AMNH 12591 (♂).

Locality: V-18-8, 36°06'S, 53°18'W, 278–282 m, slope east of Cabo San Antonio, Argentina, Atlantic Ocean.

Collector: R/V "Vema," Feb. 4, 1962.

Remarks: Additional paratypes were AHF 6211a (1♂, 1♀) (Schultz, 1982: 61); current repository unknown because they are not in LACM (Davis, personal commun.). This species is now placed in the genus *Tenupedunculus* Schultz, 1982 (Serov and Wilson, 1995: 82).

*Stenetrium pulchrum* Schultz, 1982: 50–54, figs. 26, 27.

Holotype: AMNH 12587 (♂).

Allotype: AMNH 12588 (♀).

Paratype: AMNH 12589 (1♀ fragment).

Locality: V-15-131, 40°14.6'S, 55°24.7'W, 1475 m, slope east of Cabo San Antonio, Argentina, Atlantic Ocean.

Collector: R/V "Vema," April 3, 1959.

Remarks: All other specimens of this species cited by Schultz (1982: 54, 61) are nontypes including AMNH 12590 (1♂, 5♀), despite Schultz's handwritten "paratype" designation on the specimen label. This species is now placed in the genus *Tenupedunculus* Schultz, 1982 (Serov and Wilson, 1995: 82). Schultz deposited "types" in AMNH of three additional "*Stenetrium*" species that he synonymized with previously described species before his 1982 paper was published; they are listed here to avoid future confusion regarding their unpublished manuscript names: AMNH 12585, 12586 = *S. saldanha* Barnard, 1920; AMNH 12592, 12593 = *S. acutum* Vanhöffen, 1914 [now in *Tenupedunculus* fide Serov and Wilson, 1995: 82];

AMNH 12594 = *S. beddardi* Kussakin, 1967 [now in *Tenupedunculus* fide Serov and Wilson, 1995: 82].

*Storhyngura birsteini* Menzies, 1962: 149, fig. 40a, b.

Holotype: AMNH 12140 (♀).

Paratypes: AMNH 12140A (1 juvenile ♀, 3 fragments).

Locality: V-15-118, 55°44.2'S, 64°11.5'W, 3777 m, Continental Rise, south of Staten Island, northwestern Scotia Sea, Atlantic Ocean.

Collector: R/V "Vema," March 16, 1959.

Remarks: ex LGO.

*Storhyngura digitata* Menzies, 1962: 146, fig. 37a–c.

Holotype: AMNH 12083 (♀).

Locality: V-15-128, 44°53.3'S, 51°26.5'W, 5845 m, southwestern flank of Argentine Rise, south-east of Bahía Blanca, Argentina, Atlantic Ocean.

Collector: R/V "Vema," March 31, 1959.

Remarks: ex LGO. AMNH 12093 is the holotype by monotypy.

*Storhyngura snanoi* Menzies, 1962: 149–150, fig. 40c–e.

Holotype: AMNH 12082 (♀).

Locality: V-15-10, 14°05'N, 75°25'W, 4077 m, central part of Colombia Abyssal Plain, Atlantic Ocean.

Collector: R/V "Vema," Nov. 7, 1958.

Remarks: ex LGO. AMNH 12082 is the holotype by monotypy.

*Storhyngura symmetrica* Menzies, 1962: 149, fig. 38f–i.

Holotype: AMNH 12099 (♂).

Allotype: AMNH 12100 (♀).

Paratypes: AMNH 12101 (2♂, 5♀).

Locality: V-14-31, 36°34'S, 14°08'E, 4893 m, Lower Continental Rise, southwest of Cape Town, South Africa, Atlantic Ocean.

Collector: R/V "Vema," April 4, 1958.

Remarks: ex LGO.

*Storhyngura triplispinosa* Menzies, 1962: 149, fig. 38a–e.

Holotype: AMNH 12087 (♀).

Paratypes: AMNH 12215 (1♂, 1♀), 12216 (1♂, 14♀), 12298 (1♀).

Locality: V-12-2, 30°14.9'S, 13°03'E, 3045 m, Upper Continental Rise, southeast of Port Nolloth, South Africa (AMNH 12298), V-14-28, 45°34'S, 06°02'E, 4593 m, western flank of Walvis Ridge, northwest of Meteor Seamount (AMNH 12087), V-14-31, 36°34'S, 14°08'E, 4893 m, Lower Continental Rise, southwest of Cape Town, South Africa (AMNH 12216), V-

15-128, 44°53.3'S, 51°26.5'W, 5845 m, southwestern flank of Argentine Rise, southeast of Bahía Blanca, Argentina (AMNH 12215), Atlantic Ocean.

Collector: R/V "Vema," April 30, 1957 (AMNH 12298), March 28 (AMNH 12087), April 4, 1958 (AMNH 12216), March 31, 1959 (AMNH 12215).

Remarks: ex LGO.

*Storhyngura vema* Menzies, 1962: 149, fig. 39.

Holotype: AMNH 12104 (♂).

Paratype: AMNH 12105 (1 fragment).

Locality: Theta-1-6, 31°41'–43'N, 68°08'W, 5159 m, Bermuda Plateau, near western edge of Bermuda Rise, Atlantic Ocean.

Collector: R/V "Theta," Sept. 26, 1956.

Remarks: ex LGO.

*Stylomesus elegans* Menzies, 1962: 126, fig. 24h–k.

Holotype: AMNH 12045 (♂).

Paratype: AMNH 12276 (1 pleon fragment).

Locality: V-14-28, 45°34'S, 06°02'E, 4618 m, western flank of Walvis Ridge, northwest of Meteor Seamount (AMNH 12045), V-15-124, 49°35'S, 48°04.6'W, 2740 m, 200 fathoms below top of Falkland Escarpment, northeast of Falkland Islands (AMNH 12276), Atlantic Ocean.

Collector: R/V "Vema," March 28, 1958 (AMNH 12045), March 26, 1959 (AMNH 12276).

Remarks: ex LGO. This species is now placed in the genus *Bactromes* Wolff, 1962 (Wolff, 1962: 83).

*Stylomesus granulosus* Menzies, 1962: 124–125, fig. 24a–c.

Holotype: AMNH 12051 (♂).

Allotype: AMNH 12052 (♀).

Paratypes: AMNH 12053 (4 fragments).

Locality: V-14-28, 45°34'S, 06°02'E, 4618 m, western flank of Walvis Ridge, northwest of Meteor Seamount, Atlantic Ocean.

Collector: R/V "Vema," March 28, 1958.

Remarks: ex LGO.

*Stylomesus productus* Menzies, 1962: 127, fig. 26a–c.

Holotype: AMNH 12145 (♂ fragment).

Locality: V-15-130, 42°00'S, 45°01.5'W, 5302 m, southwestern flank of Argentine Rise, southeast of Bahía Blanca, Argentina, Atlantic Ocean.

Collector: R/V "Vema," April 2, 1959.

Remarks: ex LGO. AMNH 12145 is the holotype by monotypy.

*Stylomesus regularis* Menzies, 1962: 126, fig. 25a–d.

Holotype: AMNH 12141 (♂).

Allotype: AMNH 12142 (♀).

Paratype: AMNH 12142A (1 cephalon fragment).

Locality: V-15-134, 27°53.7'S, 39°26'W, 4143–4165 m, Continental Rise, southeast of Rio de Janeiro, Brazil, Atlantic Ocean.

Collector: R/V "Vema," April 25, 1959.

Remarks: ex LGO. AMNH 12141, 12142, and 12142A are in the same vial.

*Stylomesus simplex* Menzies, 1962: 126–127, fig. 25e–j.

Holotype: AMNH 12030 (♂).

Allotype: AMNH 12031 (♀ fragment).

Paratypes: AMNH 12184 (1♀), 12293 (1♀).

Locality: V-12-1A, 38°58.5'S, 41°45'W, 5041 m, northern part of Argentine Rise, southeast of Río Grande, Argentina (AMNH 12030, 12031), V-14-31, 36°34'S, 14°08'E, 4893 m, Lower Continental Rise, southwest of Cape Town, South Africa (AMNH 12293), V-15-128, 44°53.3'S, 51°26.5'W, 5845 m, southwestern flank of Argentine rise, southeast of Bahía Blanca, Argentina (AMNH 12184), Atlantic Ocean.

Collector: R/V "Vema," April 6, 1957 (AMNH 12030, 12031), April 4, 1958 (AMNH 12293), March 31, 1959 (AMNH 12184).

Remarks: ex LGO.

*Stylomesus simulans* Menzies, 1962: 127, fig. 26d–f.

Holotype: AMNH 12144 (♂ fragment).

Locality: V-15-130, 42°00'S, 45°10.5'W, 5302 m, southwestern flank of Argentine Rise, southeast of Bahía Blanca, Argentina, Atlantic Ocean.

Collector: R/V "Vema," April 2, 1959.

Remarks: ex LGO. AMNH 12144 is the holotype by monotypy.

*Stylomesus spinulosus* Menzies, 1962: 125–126, fig. 24d–g.

Holotype: AMNH 12054 (♀ fragment).

Paratypes: AMNH 12055 (3 fragments).

Locality: V-12-1A, 38°58.5'S, 41°45'W, 5041 m, northern part of Argentine Rise, southeast of Río Grande, Argentina, Atlantic Ocean.

Collector: R/V "Vema," April 6, 1957.

Remarks: ex LGO.

*Synarmadillo lubilensis* Van Name, 1920: 95–97, figs. 101–110.

Holotype: AMNH 3259 (♀), 3259A (slide), 3259B (slide).

Locality: In termite nest, at Lubila River, 01°N, 26°30'E, Belgian Congo [= Zaire = Democratic Republic of the Congo].

Collector: H. Lang and J. Chapin, Sept. 20, 1909.

Remarks: The body of the holotype is AMNH 3259 and the mouthparts are AMNH 3259A.

and 3259B. AMNH 3259, 3259A, and 3259B is the holotype by monotypy.

*Syneurycope hanseni* Menzies, 1956: 6, fig. 2.

Holotype: AMNH 11758 (♂).

Locality: V-7-1, 20°3.2'N, 68°21.1'W, 4983–5001 m, northern rim, Puerto Rico Trench, Atlantic Ocean.

Collector: R/V "Vema," Nov. 12, 1955.

Remarks: AMNH 11758 is the holotype by monotypy. This species is a synonym of *S. parallela* Hansen, 1916 (Haugness and Hessler, 1979: 127).

*Syneurycope heezeni* Menzies, 1962: 151, fig. 41a–e.

Holotype: AMNH 12132 (♀).

Paratypes: AMNH 12133 (1♀), 12280 (2♀, 2 fragments), 12281 (1♀).

Locality: V-15-116, 55°42.9'S, 64°21.6'W, 3824 m, (AMNH 12132, 12133), V-15-117, 55°31.2'S, 64°07.5'W, 3845 m (AMNH 12280), Continental Rise, south of Staten Island, northwestern Scotia Sea, V-15-136, 09°45'S, 34°24'W, 3223–3332 m, Continental Rise, southeast of Recife, Brazil (AMNH 12281), Atlantic Ocean.

Collector: R/V "Vema," March 15 (AMNH 12132, 12133, 12280), May 3 (AMNH 12281), 1959.

Remarks: ex LGO.

*Syneurycope multispina* Menzies, 1962, 152, fig. 42e–k.

Holotype: AMNH 12093 (♂).

Allotype: AMNH 12094 (♀).

Paratype: AMNH 12095 (1♂).

Locality: V-14-29, 41°03'S, 07°49'E, 4961 m, southwestern flank of Schmidt-Ott Rise, southwest of Cape Town, South Africa, Atlantic Ocean.

Collector: R/V "Vema," March 30, 1958.

Remarks: ex LGO. Menzies (1962: 152) cited the paratype as a ♀ specimen, but his label in the vial correctly indicates a ♂. This species is now placed in *Bellibos* (*Bellibos*) Haugness and Hessler, 1979 (Haugness and Hessler, 1979: 144).

*Tenupedunculus elongatus* Schultz, 1982: 56–58, figs. 30, 31.

Holotype: AMNH 12595 (♂).

Locality: V-17-84, 50°15'S, 35°53'W, 4696 m, southwestern part of Argentine Basin, Atlantic Ocean.

Collector: R/V "Vema," June 1, 1961.

Remarks: AMNH 12595 is the holotype by monotypy. This species is the type of the genus *Tenupedunculus* Schultz, 1982 (Schultz, 1982: 56).

*Trichoniscus* (*Miktoniscus*) *medcofi* Van Name, 1940: 111–112, fig. 2.

Holotype: AMNH 9069 (♂).

Paratypes: AMNH 9069A (6♂, 6♀), 9070 (6♀), 9071 (1♂), 9072 (34 specimens) [LOST].

Locality: On moist floor, botanical greenhouse, University of Illinois (AMNH 9069, 9069A, 9072); on bench, florist greenhouse, 1202 North Goodwin (AMNH 9070), Urbana; Garfield Park Conservatory, Chicago (AMNH 9071), Illinois, United States.

Collector: J. C. Medcof, Oct. 27, 1936 (AMNH 9069, 9069A, 9072), Feb. 9, 1937 (AMNH 9071), Feb. 27, 1938 (AMNH 9070).

Remarks: AMNH 9069 and 9069A are in the same vial but the holotype is segregated. Although cited by Schultz (1976a: 37), AMNH 9072 cannot be located in the collection. Additional paratypes are LACM 36–194.1 (2 specimens ex AMNH 9069A or 9072) (Wetzer et al., 1991: 37), MCZ 10953 (2 specimens ex AMNH 9069A or 9072), and USNM 79305 (2 specimens ex AMNH 9069A or 9072). The specimens given to A. Lemos de Castro (ex AMNH 9072) cannot be located in MNRJ (P. Young, personal commun.). This species is now placed in the genus *Miktoniscus* Kesselyák, 1930 (Lemos de Castro, 1953: 529).

*Trichorhina bequaerti* Van Name, 1936: 206–209, figs. 113, 114.

Holotype: AMNH 6523 (♂).

Paratypes: AMNH 6523A (1♂, 1♀).

Locality: Cave of Aguas Gordas, Baños, Oriente Province, Cuba.

Collector: J. Bequaert.

Remarks: AMNH 6523 and 6523A are in the same vial. Three additional paratypes are in MCZ (no catalog number) (Van Name, 1936: 209). This species is now placed in the subgenus *Cubarhina* Verhoeff, 1937 (Vandel, 1981: 42).

*Trichorhina triocis* Mulaik and Mulaik, 1943: 8–9, figs. 28–36.

Holotype: AMNH 16726 (♂).

Locality: Edinburg, Hidalgo Co., Arizona, United States.

Collector: S. and D. Mulaik, Sept. 24, 1938.

Remarks: ex University of Utah via AMNH Dept. Entomology. AMNH 16726 is in extremely poor condition. The paratype is not in the University of Utah Department of Biology (Edmunds, personal commun.), nor is it in the Utah Museum of Natural History (Rickart, personal commun.); it is presumed lost.

*Trichorhina zimapanensis* Mulaik, 1960: 141–142, figs. 131–145.

Paratypes: AMNH 17526 (2♂, 4♀).

Locality: 6 mi N Zimapán, Hidalgo, mile 341 on the Mexico-Laredo Highway, 3100 ft, Mexico.

Collector: S. Mulaik, Jan. 8, 1948.

Remarks: ex University of Utah via AMNH Dept. Entomology. The holotype, allotype, and paratypes are in the Escuela Nacional de Ciencias Biológicas del Instituto Politécnico Nacional de México (Mulaik, 1960: 82).

*Tylos insularis* Van Name, 1936: 412–414, figs. 254, 255.

Holotype: AMNH 4824 (♂).

Paratypes: AMNH 4824A (1♂, 3♀).

Locality: Under dead wood and slabs of lava, Tower Island, Galápagos Islands, Ecuador.

Collector: W. Beebe.

Remarks: AMNH 4824 and 4824A are in the same vial; the type is the largest specimen. This taxon is now considered a subspecies of *Tylos punctatus* Holmes and Gay, 1909 (Schultz, 1970: 300).

*Vemathambema elongata* Menzies, 1962: 183, fig. 62j–m.

Holotype: AMNH 12073 (♀).

Locality: V-12-3, 28°25.2'S, 08°28.5'E, 4986 m, northern end of Orange Abyssal Plain, Atlantic Ocean.

Collector: R/V "Vema," May 2, 1957.

Remarks: ex LGO. AMNH 12073 is the holotype by monotypy. This species is the type of the genus *Vemathambema* Menzies, 1962, by monotypy (Menzies, 1962: 183).

*Xostylus parallelus* Menzies, 1962: 181, fig. 61m–r.

Holotype: AMNH 12109 (♀).

Locality: V-12-1A, 38°58.5'S, 41°45'W, 5041 m, northern part of Argentine Rise, southeast of Río Grande, Argentina, Atlantic Ocean.

Collector: R/V "Vema," April 6, 1957.

Remarks: ex LGO. AMNH 12109 is the holotype by monotypy. This species is the type of the genus *Xostylus* Menzies, 1962, by monotypy (Menzies, 1962: 179).

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